



# Material Safety Data Sheets

## FUJIFILM UK Ltd.

### Chemical system: CP48SII

**Paper processor model series:**

**Frontier 330-350-355-370-375-390 – Version CP48SII**

#### Contents:

Product	Product No. (SDS)	Current update
<b>Cartridge:</b>		
FJ CP-48SII PC P1R	994475	11.05.06
FJ CP-48SII PC P2RA	994475	09.07.08
FJ CP-48SII PC P2RB	994475	02.06.08
FJ SUPERCONDITIONING TABLETS 100 PCE	961847	01.10.05
<b>Start-up kits – small:</b>		
FJ CP-48SII P1 A 422ML	994483	11.05.06
FJ CP-48SII P1 B 550ML	994483	11.05.06
FJ CP-48SII P2 A 710ML	994509	01.10.05
FJ CP-48SII P2 B 750ML	994509	28.10.05
<b>Start-up kits – large:</b>		
FJ CP-48SII P1 A 1005ML	994491	11.05.06
FJ CP-48SII P1 B 1310ML	994491	11.05.06
FJ CP-48SII P2 A 1691ML	994517	01.10.05
FJ CP-48SII P2 B 1786ML	994517	28.10.05

(51 pages, inclusive of cover)

#### **Material Safety Data Sheets**

Material Safety Data Sheets (MSDS) provide important health and safety information for working with our chemicals. The Fujifilm MSDS information is updated regularly, to check for updates please email us direct at:

[environment@fuji.co.uk](mailto:environment@fuji.co.uk)

The MSDS posted on this site are valid only for products sold by FUJIFILM UK Ltd into the UK market as product ingredients, size, name, and product code may vary depending on the geographic market. The information should be used to assist you in making an independent assessment of the best method to safeguard your workers and the environment, required in the UK under the Control of Substances Hazardous to Health Regulations (COSHH). The data is not an assessment of hazards but will describe the hazards, helping your assessment in the workplace.

**Note: FUJIFILM UK Ltd CANNOT guarantee that the version of a particular MSDS posted on the website at any given time is the most current version of the MSDS for the product you are using. We encourage you to check regularly for updates or email us direct at:**

[environment@fuji.co.uk](mailto:environment@fuji.co.uk)

Release date: 19<sup>th</sup> September 2008





According to 1907/2006/EC

# MATERIAL SAFETY DATA SHEET

Catalogue N° : 994475 Printing date : 16/08/2008

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

1.1. Identification of the substance or preparation

**FJ CP-48SII PC P1R 1,3L**

1.2. Use of the substance/preparation

Photographic developer

1.3. Company/undertaking identification

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1.4. Emergency telephone

+44 844 553 23 12

## 2. HAZARDS IDENTIFICATION

Most important hazards :

Irritating to eyes and skin.

May cause sensitization by skin contact.

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

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterisation: aqueous solution

Components contributing to hazard:

w/w%	CAS N°	EINECS N°	Components	
			Symb.	R-phrases
0,5-1,5	1310-73-2	215-185-5		SODIUM HYDROXIDE C R:35
1-5	.	203-872-2		DIETHYLENE GLYCOL Xn R:22
0,5-1,5	111-46-6	.		BENZOIC ACID DERIVATIVE C R:34-43
3-7	15451-00-0	407-370-6		ETHANESULPHONIC ACID, 2,2'-(HYDROXYIMINO) BIS, DISODIUM SALT - R:52/53
3-7	.	247-161-5		P-PHENYLENEDIAMINE DERIVATIVE Xn N R:22-43-50/53
5-10	51-3	209-529-3		POTASSIUM CARBONATE Xi R:36/38
.	25646-71-3	.		
.	584-08-7	.		

## **4. FIRST AID MEASURES**

### Eye contact

Irrigate with flowing water immediately and continuously for 15 minutes.  
Consult medical personnel.

### Skin contact

Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing

### Ingestion

Consult a physician or transport to emergency facility immediately.

### Inhalation

Remove to fresh air. Consult a physician.

### Further information

Overexposure may lead to allergic skin reactions with sensitized people. In this case, seek medical advice.

## **5. FIRE-FIGHTING MEASURES**

### 5.1. Suitable extinguishing media:

Water.

Water fog, carbon dioxide, foam, dry chemicals.

### 5.2. Extinguishing media to avoid:

None under normal conditions.

### 5.3. Further information:

Keep containers cool by spraying with water.

## **6. ACCIDENTAL RELEASE MEASURES**

- Wear adequate personal protective equipment, see section 8 ( exposure control / personal protection ).
- Spills should be contained by and carried with suitable absorbent material and removed from disposal.
- Dispose of according to local and national regulations.
- Prevent from entering into soil, waterways and groundwater.

## **7. HANDLING AND STORAGE**

### 7.1. 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.

### 7.2. Storage

Keep containers tightly closed. Store in a well ventilated, cool, dry area. Storage temperature should be higher than +5°C

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

### 8.1. Exposure limit values (INGREDIENTS INFORMATION)

#### SODIUM HYDROXIDE

MAK ( Deutschland, TRGS 900 )	=	2 E mg/m <sup>3</sup>
TLV-TWA	=	NAv
TLV-STEL	=	2 mg/m <sup>3</sup>

#### DIETHYLENE GLYCOL

MAK ( Deutschland, TRGS 900 )	=	10 ppm - 44 mg/m <sup>3</sup>
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#### BENZOIC ACID DERIVATIVE

MAK ( Deutschland, TRGS 900 )	=	NAv
TLV-TWA	=	NAv

#### ETHANESULPHONIC ACID, 2,2'-(HYDROXYIMINO) BIS, DISODIUM SALT

MAK ( Deutschland, TRGS 900 )	=	NAv
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#### P-PHENYLENEDIAMINE DERIVATIVE

MAK ( Deutschland, TRGS 900 )	=	NAv
TLV-TWA	=	NAv

#### POTASSIUM CARBONATE

MAK ( Deutschland, TRGS 900 ) = NAv  
 TLV-TWA = NAv

## 8.2. Exposure controls

Respiratory protection: no respiratory protection needed under normal conditions. Good ventilation should be sufficient.

Hand protection: use chemical resistant gloves. In case of prolonged immersion or frequently repeated contact use gloves made of the materials:  
 nitrile rubber (thickness  $\geq$  0,38 mm, breakthrough time  $>$  480 min)  
 neoprene (thickness  $\geq$  0,65 mm, breakthrough time  $>$  240 min).

butyl rubber (thickness  $\geq$  0,36 mm, breakthrough time  $>$  480 min)

For intermittent splash protection corresponding gloves with breakthrough time  $>$  60 min can be used.

Avoid gloves made of : natural rubber.

Eye protection: use chemical safety goggles. Eye wash fountain should be located in immediate work area.

Other: appropriate protective clothing.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : Liquid  
 Colour : Yellow  
 Flash point °C : NA  
 pH value (25°C) : 13,3  
 Density (20°C) Kg/L : 1,188  
 Solubility in water (25°C) : Completely Soluble

## **10. STABILITY AND REACTIVITY**

### 10.1. Conditions to avoid

The product is stable under normal storage conditions.

### 10.2. Materials to avoid

Keep away from acids.

Keep away from oxidising material(s).

### 10.3. Hazardous decomposition products

Formation of CO<sub>2</sub>, CO, NO<sub>x</sub> is possible.

## **11. TOXICOLOGICAL INFORMATION**

### Acute toxicity (INGREDIENTS INFORMATION)

#### SODIUM HYDROXIDE

LD50 (Oral Rat) = NAv

#### DIETHYLENE GLYCOL

LD50 (Oral Rat) = 12565 mg/kg

LD50 (Dermal rabbit) = 11890 mg/kg

#### BENZOIC ACID DERIVATIVE

LD50 (Oral Rat) =  $>$  2000 mg/kg

#### ETHANESULPHONIC ACID, 2,2'-(HYDROXYIMINO) BIS, DISODIUM SALT

LD50 (Oral Rat) =  $>$  2000 mg/kg

#### P-PHENYLENEDIAMINE DERIVATIVE

LD50 (Oral Rat) = 152-931 mg/kg

#### POTASSIUM CARBONATE

LD50 (Oral Rat) =  $>$ 2000 mg/kg

### Eye contact

Irritating to eyes.

### Skin contact

Irritating to skin.

May cause sensitization by skin contact.

## **12. ECOLOGICAL INFORMATION**

### 12.1. Ecotoxicity (INGREDIENTS INFORMATION)

#### SODIUM HYDROXIDE

LC50 (Fish, 96 hours) = NAv

#### DIETHYLENE GLYCOL

LC50 (Fish, 96 hours) =  $>$  32000 mg/L

## BENZOIC ACID DERIVATIVE

LC50 (Pimephales promelas, 96h) = &gt; 96.2 mg/l

## ETHANESULPHONIC ACID, 2,2'-(HYDROXYIMINO) BIS, DISODIUM SALT

LC50 (Rainbow trout, 96h) = &gt; 3200 mg/L

## P-PHENYLENEDIAMINE DERIVATIVE

LC50 (Pimephales promelas, 96h) = 6,4 mg/l

## POTASSIUM CARBONATE

LC50 (Fish, 96 hours) = NAv

## 12.2. Mobility

Not available

## 12.3. Persistence and Degradability

Not available

## 12.4. Bioaccumulative potential

Not available

## 12.5. Other adverse effects

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

**13. DISPOSAL CONSIDERATIONS**

Dispose of according to local and national regulations. Containers must be disposed of in accordance with local regulations.

EWC: 09 01 01 Water-based developer and activator solutions

**14. TRANSPORT INFORMATION**

UN N° : 1824

PSN :SODIUM HYDROXIDE, SOLUTION

ADR/RID

Class:	8	Labels	:8	Pack. Group:	III
Tun.Code	:E	TREMc card	:8.1824B-301	Spec. Prov.:	-
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:	819	Max Net Qty/Pkg:	5L
Cargo Aircraft Only	.	Pkg Inst:	821	Max Net Qty/Pkg:	60L
Ltd Qty	.	Pkg Inst:	1L	Max Net Qty/Pkg:	Y819

**15. REGULATORY INFORMATION**

EU Classification and User Label Information:

Contains : P-PHENYLENEDIAMINE DERIVATIVE  
SODIUM HYDROXIDE

Symbol(s) : Xi N

R(isk) phrase(s) :

R36/38 : Irritating to eyes and skin.  
R43 : May cause sensitization by skin contact.  
R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S(afety) phrase(s) :

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.  
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.

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Date of issue: 11.05.2006

Supersedes edition of: 27.03.2006  
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NAv : Not available      NA : Not applicable

## RISK PHRASES MENTIONED IN PARAGRAPH 2:

R22           :   Harmful if swallowed.

R34           :   Causes burns.

R35           :   Causes severe burns.

R36/38       :   Irritating to eyes and skin.

R43           :   May cause sensitization by skin contact.

R50/53       :   Very toxic to aquatic organisms, may cause long-term adverse effects in

the aquatic environment.

R52/53       :   Harmful to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.



According to 1907/2006/EC

# MATERIAL SAFETY DATA SHEET

Catalogue N° : 994475 Printing date : 16/08/2008

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

1.1. Identification of the substance or preparation

**FJ CP-48SII PC P2RA 1,3L**

1.2. Use of the substance/preparation

Photographic bleach-fix

1.3. Company/undertaking identification

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## 2. HAZARDS IDENTIFICATION

Most important hazards :

May cause sensitization by skin contact.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterisation: aqueous solution

Components contributing to hazard:

w/w%	CAS N°	EINECS N°	Components Symb. R-phrases
3-7	6484-52-2	229-347-8	AMMONIUM NITRATE O R:8-9
1-5	15451-00-0	203-740-4	BENZOIC ACID DERIVATIVE C R:34-43
0,5-1,5	110-15-6	.	SUCCINIC ACID Xi R:41
.	.	.	

## 4. FIRST AID MEASURES

Eye contact

Irrigate with flowing water immediately and continuously for 15 minutes.

Consult medical personnel.

Skin contact

Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing

Ingestion

Consult a physician or transport to emergency facility immediately.

### Inhalation

Remove to fresh air. Consult a physician.

### Further information

Overexposure may lead to allergic skin reactions with sensitized people. In this case, seek medical advice.

## **5. FIRE-FIGHTING MEASURES**

### 5.1. Suitable extinguishing media:

Water.

Water fog, carbon dioxide, foam, dry chemicals.

### 5.2. Extinguishing media to avoid:

None under normal conditions.

### 5.3. Further information:

Keep containers cool by spraying with water.

## **6. ACCIDENTAL RELEASE MEASURES**

- Wear adequate personal protective equipment, see section 8 ( exposure control / personal protection ).
- Spills should be contained by and carried with suitable absorbent material and removed from disposal.
- Dispose of according to local and national regulations.
- Prevent from entering into soil, waterways and groundwater.

## **7. HANDLING AND STORAGE**

### 7.1. 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.

### 7.2. Storage

Keep containers tightly closed. Store in a well ventilated, cool, dry area. Storage temperature should be higher than +5°C

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

### 8.1. Exposure limit values (INGREDIENTS INFORMATION)

#### AMMONIUM NITRATE

TLV-TWA = NAV

#### BENZOIC ACID DERIVATIVE

MAK ( Deutschland, TRGS 900 ) = NAV

TLV-TWA = NAV

#### SUCCINIC ACID

MAK ( Deutschland, TRGS 900 ) = NAV

TLV-TWA = NAV

### 8.2. Exposure controls

Respiratory protection: no respiratory protection needed under normal conditions. Good ventilation should be sufficient.

Hand protection: use chemical resistant gloves. In case of prolonged immersion or frequently repeated contact use gloves made of the materials:  
nitrile rubber (thickness  $\geq$  0,38 mm, breakthrough time  $>$  480 min)  
neoprene (thickness  $\geq$  0,65 mm, breakthrough time  $>$  240 min).

butyl rubber (thickness  $\geq$  0,36 mm, breakthrough time  $>$  480 min)

For intermittent splash protection corresponding gloves with breakthrough time  $>$  60 min can be used.

Avoid gloves made of : natural rubber.

Eye protection: use chemical safety goggles. Eye wash fountain should be located in immediate work area.

Other: appropriate protective clothing.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: Liquid
Colour	: Reddish Brown
Flash point °C	: NA

pH value (25°C) : 4,50  
 Density (20°C) Kg/L : 1,093  
 Solubility in water (25°C) : Completely Soluble

## **10. STABILITY AND REACTIVITY**

- 10.1. Conditions to avoid  
 The product is stable under normal storage conditions.
- 10.2. Materials to avoid  
 Keep away from reducing agents.
- 10.3. Hazardous decomposition products  
 Formation of CO<sub>2</sub>, CO, NO<sub>x</sub>, NH<sub>3</sub> is possible.

## **11. TOXICOLOGICAL INFORMATION**

Acute toxicity (INGREDIENTS INFORMATION)

AMMONIUM NITRATE  
 LD50 (Oral Rat) = 2217 mg/kg

BENZOIC ACID DERIVATIVE  
 LD50 (Oral Rat) = > 2000 mg/kg

SUCCINIC ACID  
 LD50 (Oral Rat) = 2260 mg/kg

Skin contact

May cause sensitization by skin contact.

## **12. ECOLOGICAL INFORMATION**

12.1. Ecotoxicity (INGREDIENTS INFORMATION)

AMMONIUM NITRATE  
 LC50 (Fish, 96 hours) = NAv

BENZOIC ACID DERIVATIVE  
 LC50 (Pimephales promelas, 96h) = > 96.2 mg/l

SUCCINIC ACID  
 LC50 (Fish, 96 hours) = NAv

12.2. Mobility

Not available

12.3. Persistence and Degradability

Not available

12.4. Bioaccumulative potential

Not available

12.5. Other adverse effects

## **13. DISPOSAL CONSIDERATIONS**

Dispose of according to local and national regulations. Containers must be disposed of in accordance with local regulations.

EWC: 09 01 05 Bleach solutions and bleach fixer solutions

## **14. TRANSPORT INFORMATION**

UN N° : -

PSN :NON HAZARDOUS LIQUID

ADR/RID

Class: NA Labels :- Pack. Group:-  
 Tun.Code :NA TREMcard :NA Spec. Prov.:-  
 Pack. Inst.: - Lim. Quant.:-

IMDG

Class: NA Subs. Risk :NA Pack. Group:NA  
 EmS fire: NA EmS Spill. :NA IBC. Inst. :-  
 Pack. Inst.: - Lim. Quant.:- Mar.Poll:N

ICAO/IATA

Class: NA Subs. Risk :NA Pack. Group:NA  
 Passenger and Cargo Aircraft. Pkg Inst:NA Max Net Qty/Pkg:NA  
 Cargo Aircraft Only . Pkg Inst:NA Max Net Qty/Pkg:NA  
 Ltd Qty . Pkg Inst:- Max Net Qty/Pkg:-

## **15. REGULATORY INFORMATION**

EU Classification and User Label Information:

Contains : BENZOIC ACID DERIVATIVE

Symbol(s) : Xi

R(isk) phrase(s) :

R43 : May cause sensitization by skin contact.

S(afety) phrase(s) :

S24 : Avoid contact with skin.

S37 : Wear suitable gloves.

Other information :

WGK: 2

## **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.

-----  
Date of issue: 09.07.2008

Supersedes edition of: -  
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NAv : Not available      NA : Not applicable

RISK PHRASES MENTIONED IN PARAGRAPH 2:

R34 : Causes burns.

R41 : Risk of serious damage to eyes.

R43 : May cause sensitization by skin contact.

R8 : Contact with combustible material may cause fire.

R9 : Explosive when mixed with combustible material.

# MATERIAL SAFETY DATA SHEET

Catalogue N° : 994475    Printing date    : 28/08/2008

## 1. IDENTIFICATION OF THE SUBSTANCE /PREPARATION AND OF THE COMPANY

1.1. Identification of the substance or preparation

**FJ CP-48SII PC P2RB                      1, 3L**

1.2. Use of the substance/preparation

Photographic bleach-fix

1.3. Company/undertaking identification

FUJIFILM Europe NV	FUJIFILM UK Ltd.
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1.4. Emergency telephone

+44 844 553 23 12

## 2. HAZARDS IDENTIFICATION

Most important hazards :

Irritating to eyes and skin.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterisation: aqueous solution

Components contributing to hazard:

w/w%	CAS N°	EINECS N°	Components Symb.    R-phrases
7-15	10192-30-0	233-469-7	AMMONIUM HYDROGEN SULFITE C R:31-34

## 4. FIRST AID MEASURES

Eye contact

Irrigate with flowing water immediately and continuously for 15 minutes.

Consult medical personnel.

Skin contact

Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing

Ingestion

Consult a physician or transport to emergency facility immediately.

Inhalation

Remove to fresh air. Consult a physician.

Further information

None

## 5. FIRE-FIGHTING MEASURES

5.1. Suitable extinguishing media:

Water.

Water fog, carbon dioxide, foam, dry chemicals.

5.2. Extinguishing media to avoid:

None under normal conditions.

5.3. Further information:

Keep containers cool by spraying with water.

## **6. ACCIDENTAL RELEASE MEASURES**

- Wear adequate personal protective equipment, see section 8 ( exposure control / personal protection ).
- Spills should be contained by and carried with suitable absorbent material and removed from disposal.
- Dispose of according to local and national regulations.
- Prevent from entering into soil, waterways and groundwater.

## **7. HANDLING AND STORAGE**

### 7.1. 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.

### 7.2. Storage

Keep containers tightly closed. Store in a well ventilated, cool, dry area. Storage temperature should be higher than +5°C

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

### 8.1. Exposure limit values (INGREDIENTS INFORMATION)

AMMONIUM HYDROGEN SULFITE

MAK ( Deutschland, TRGS 900 ) = NAV  
TLV-TWA = NAV

### 8.2. Exposure controls

Respiratory protection: no respiratory protection needed under normal conditions. Good ventilation should be sufficient.

Hand protection: use chemical resistant gloves. In case of prolonged immersion or frequently repeated contact use gloves made of the materials: nitrile rubber (thickness  $\geq$  0,38 mm, breakthrough time  $>$  480 min) neoprene (thickness  $\geq$  0,65 mm, breakthrough time  $>$  240 min). butyl rubber (thickness  $\geq$  0,36 mm, breakthrough time  $>$  480 min) For intermittent splash protection corresponding gloves with breakthrough time  $>$  60 min can be used.

Avoid gloves made of : natural rubber.

Eye protection: use chemical safety goggles. Eye wash fountain should be located in immediate work area.

Other: appropriate protective clothing.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : Liquid  
Flash point °C : NA  
pH value (25°C) : 5,55  
Density (20°C) Kg/L : 1,285  
Solubility in water (25°C) : Completely Soluble

## **10. STABILITY AND REACTIVITY**

### 10.1. Conditions to avoid

The product is stable under normal storage conditions.

### 10.2. Materials to avoid

Keep away from reducing agents.

### 10.3. Hazardous decomposition products

Formation of NH<sub>3</sub>, NO<sub>x</sub>, H<sub>2</sub>S, SO<sub>2</sub> is possible.

## **11. TOXICOLOGICAL INFORMATION**

### Acute toxicity (INGREDIENTS INFORMATION)

AMMONIUM HYDROGEN SULFITE

LD50 (Oral Rat) = NAV

### Eye contact

Irritating to eyes.

### Skin contact

Irritating to skin.

## **12. ECOLOGICAL INFORMATION**

- 12.1. Ecotoxicity (INGREDIENTS INFORMATION)  
AMMONIUM HYDROGEN SULFITE  
LC50 (Fish, 96 hours) = NAV
- 12.2. Mobility  
Not available
- 12.3. Persistence and Degradability  
Not available
- 12.4. Bioaccumulative potential  
Not available
- 12.5. Other adverse effects

## **13. DISPOSAL CONSIDERATIONS**

Dispose of according to local and national regulations. Containers must be disposed of in accordance with local regulations.  
EWC: 09 01 05 Bleach solutions and bleach fixer solutions

## **14. TRANSPORT INFORMATION**

UN N° : -  
PSN :NON HAZARDOUS LIQUID  
ADR/RID  
Class: NA Labels :- Pack. Group:-  
Tun.Code :NA TREMcard :NA Spec. Prov.:-  
Pack. Inst.: - Lim. Quant.:-

IMDG  
Class: NA Subs. Risk :NA Pack. Group:NA  
EmS fire: NA EmS Spill. :NA IBC. Inst. :-  
Pack. Inst.: - Lim. Quant.:- Mar.Poll:N

ICAO/IATA  
Class: NA Subs. Risk :NA Pack. Group:NA  
Passenger and Cargo Aircraft. Pkg Inst:NA Max Net Qty/Pkg:NA  
Cargo Aircraft Only . Pkg Inst:NA Max Net Qty/Pkg:NA  
Ltd Qty . Pkg Inst:- Max Net Qty/Pkg:-

## **15. REGULATORY INFORMATION**

EU Classification and User Label Information:  
Contains : AMMONIUM HYDROGEN SULFITE  
Symbol(s) : Xi  
R(isk) phrase(s) :  
R36/38 : Irritating to eyes and skin.  
S(afety) phrase(s) :  
S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Other information :  
WGK: 1

## **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.

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Date of issue: 02.06.2008  
Supersedes edition of: -  
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NAV : Not available NA : Not applicable  
RISK PHRASES MENTIONED IN PARAGRAPH 2:  
R31 : Contact with acids liberates toxic gas.  
R34 : Causes burns.



According to 1907/2006/EC

# MATERIAL SAFETY DATA SHEET

Catalogue N° : 961847 Printing date : 16/08/2008

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

1.1. Identification of the substance or preparation

**FJ SUPERCONDITIONING TABLETS 100 PCE**

1.2. Use of the substance/preparation

Photographic solution

1.3. Company/undertaking identification

FUJIFILM Europe NV

EUROPARK-NOORD 21-22

B-9100 SINT NIKLAAS

TEL : +32 3 760 02 00

FAX : +32 3 776 91 22

FUJIFILM UK Ltd.

St. Martins Way

St. Martins Business Centre

BEDFORD

MK42 OLF

UNITED KINGDOM

PRODUCTSAFETY@FUJIFILM.EU

1.4. Emergency telephone

+44 844 553 23 12

## 2. HAZARDS IDENTIFICATION

Most important hazards :

Harmful if swallowed.

Contact with acids liberates toxic gas.

Irritating to eyes and respiratory system.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterisation: powder

Components contributing to hazard:

w/w%	CAS N°	EINECS N°	Components	
			Symb.	R-phrases
10-20	2893-78-9	220-767-7	TROCLOSENE SODIUM	OXnN R:8-22-31-36/37-50/53

## 4. FIRST AID MEASURES

Eye contact

Irrigate with flowing water immediately and continuously for 15 minutes.

Consult medical personnel.

Skin contact

Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing

Ingestion

Consult a physician or transport to emergency facility immediately.

Inhalation

Remove to fresh air. Consult a physician.

Further information

None

## **5. FIRE-FIGHTING MEASURES**

### 5.1. Suitable extinguishing media:

Water.

Water fog, carbon dioxide, foam, dry chemicals.

### 5.2. Extinguishing media to avoid:

None under normal conditions.

### 5.3. Further information:

Keep containers cool by spraying with water.

## **6. ACCIDENTAL RELEASE MEASURES**

- Wear adequate personal protective equipment, see section 8 ( exposure control / personal protection ).
- Spills should be contained by and carried with suitable absorbent material and removed from disposal.
- Dispose of according to local and national regulations.
- Prevent from entering into soil, waterways and groundwater.

## **7. HANDLING AND STORAGE**

### 7.1. 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.

### 7.2. Storage

Keep containers tightly closed. Store in a well ventilated, cool, dry area. Storage temperature should be higher than +5°C

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

### 8.1. Exposure limit values (INGREDIENTS INFORMATION)

TROCLOSENE SODIUM

MAK ( Deutschland, TRGS 900 ) = NAV

TLV-TWA = NAV

### 8.2. Exposure controls

Respiratory protection: no respiratory protection needed under normal conditions. Good ventilation should be sufficient.

Hand protection: use chemical resistant gloves. In case of prolonged immersion or frequently repeated contact use gloves made of the materials: nitrile rubber (thickness  $\geq 0,38$  mm, breakthrough time  $> 480$  min) neoprene (thickness  $\geq 0,65$  mm, breakthrough time  $> 240$  min).

butyl rubber (thickness  $\geq 0,36$  mm, breakthrough time  $> 480$  min)

For intermittent splash protection corresponding gloves with breakthrough time  $> 60$  min can be used.

Avoid gloves made of : natural rubber.

Eye protection: use chemical safety goggles. Eye wash fountain should be located in immediate work area.

Other: appropriate protective clothing.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

Density (20°C) Kg/L	: 0,999
pH value (25°C)	: 0,999
Appearance	: Solid
Colour	: White
Solubility in water (25°C)	: Completely Soluble

## **10. STABILITY AND REACTIVITY**

### 10.1. Conditions to avoid

The product is stable under normal storage conditions.

### 10.2. Materials to avoid

Keep away from acids.

Keep away from alkalis.

Keep away from oxidising material(s).

### 10.3. Hazardous decomposition products

Formation of CO<sub>2</sub>, CO and Cl<sub>2</sub> fumes is possible.

## **11. TOXICOLOGICAL INFORMATION**

Acute toxicity (INGREDIENTS INFORMATION)

PREPARATION

LD50 (Oral Rat) = > 5000 mg/kg

Eye contact

Irritating to eyes.

Ingestion

Harmful if swallowed.

Inhalation

Irritating to respiratory system.

## **12. ECOLOGICAL INFORMATION**

12.1. Ecotoxicity (INGREDIENTS INFORMATION)

PREPARATION

LD50 (Oral Rat) = -

12.2. Mobility

Not available

12.3. Persistence and Degradability

Not available

12.4. Bioaccumulative potential

Not available

12.5. Other adverse effects

## **13. DISPOSAL CONSIDERATIONS**

Dispose of according to local and national regulations. Containers must be disposed of in accordance with local regulations.

EWC: 09 01 99 Wastes not otherwise specified

## **14. TRANSPORT INFORMATION**

UN N° : -

PSN :NON HAZARDOUS SOLID

ADR/RID

Class:	NA	Labels	:-	Pack. Group:-
Tun.Code	:NA	TREMcard	:NA	Spec. Prov.:-
Pack. Inst.:	-	Lim. Quant.:	:-	

IMDG

Class:	NA	Subs. Risk	:NA	Pack. Group:NA
EmS fire:	NA	EmS Spill.	:NA	IBC. Inst. :-
Pack. Inst.:	-	Lim. Quant.:	:- Mar.Poll:N	

ICAO/IATA

Class:	NA	Subs. Risk	:NA	Pack. Group:NA
Passenger and Cargo Aircraft.		Pkg Inst:	NA	Max Net Qty/Pkg:NA
Cargo Aircraft Only		Pkg Inst:	NA	Max Net Qty/Pkg:NA
Ltd Qty		Pkg Inst:	-	Max Net Qty/Pkg:-

## **15. REGULATORY INFORMATION**

EU Classification and User Label Information:

Contains : TROCLOSENE SODIUM

Symbol(s) : Xn

R(isk) phrase(s) :

R22 : Harmful if swallowed.  
 R31 : Contact with acids liberates toxic gas.  
 R36/37 : Irritating to eyes and respiratory system.

S(afety) phrase(s) :

S22 : Do not breathe dust.  
 S26 : In case of contact with eyes, rinse immediately with plenty of water and

seek medical advice.

Other information :

WGK: 2

## **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.

-----  
Date of issue: 01.10.2005

Supersedes edition of: 01.04.2004  
-----

Nav : Not available      NA : Not applicable

RISK PHRASES MENTIONED IN PARAGRAPH 2:

R22           : Harmful if swallowed.

R31           : Contact with acids liberates toxic gas.

R36/37       : Irritating to eyes and respiratory system.

R50/53       : Very toxic to aquatic organisms, may cause long-term adverse effects in

the aquatic environment.

R8            : Contact with combustible material may cause fire.



According to 1907/2006/EC

# MATERIAL SAFETY DATA SHEET

Catalogue N° : 994483 Printing date : 16/08/2008

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

1.1. Identification of the substance or preparation

**FJ CP-48SII P1 A                      422 ML**

1.2. Use of the substance/preparation

Photographic developer

1.3. Company/undertaking identification

FUJIFILM Europe NV	FUJIFILM UK Ltd.
EUROPARK-NOORD 21-22	St. Martins Way
B-9100 SINT NIKLAAS	St. Martins Business Centre
TEL : +32 3 760 02 00	BEDFORD
FAX : +32 3 776 91 22	MK42 OLF
	UNITED KINGDOM

PRODUCTSAFETY@FUJIFILM.EU

1.4. Emergency telephone

+44 844 553 23 12

## 2. HAZARDS IDENTIFICATION

Most important hazards :

Irritating to eyes and skin.

May cause sensitization by skin contact.

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

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterisation: aqueous solution

Components contributing to hazard:

w/w%	CAS N°	EINECS N°	Components	
			Symb.	R-phrases
0,5-1,5	1310-73-2	215-185-5		SODIUM HYDROXIDE C R:35
1-5	.	203-872-2		DIETHYLENE GLYCOL Xn R:22
0,5-1,5	111-46-6	.		BENZOIC ACID DERIVATIVE C R:34-43
3-7	15451-00-0	407-370-6		ETHANESULPHONIC ACID, 2,2'-(HYDROXYIMINO) BIS, DISODIUM SALT
3-7	.	247-161-5		- R:52/53
5-10	133986-51-3	209-529-3		P-PHENYLENEDIAMINE DERIVATIVE Xn N R:22-43-50/53
.	25646-71-3	.		POTASSIUM CARBONATE Xi R:36/38
.	584-08-7	.		

#### **4. FIRST AID MEASURES**

##### Eye contact

Irrigate with flowing water immediately and continuously for 15 minutes.  
Consult medical personnel.

##### Skin contact

Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing

##### Ingestion

Consult a physician or transport to emergency facility immediately.

##### Inhalation

Remove to fresh air. Consult a physician.

##### Further information

Overexposure may lead to allergic skin reactions with sensitized people. In this case, seek medical advice.

#### **5. FIRE-FIGHTING MEASURES**

##### 5.1. Suitable extinguishing media:

Water.

Water fog, carbon dioxide, foam, dry chemicals.

##### 5.2. Extinguishing media to avoid:

None under normal conditions.

##### 5.3. Further information:

Keep containers cool by spraying with water.

#### **6. ACCIDENTAL RELEASE MEASURES**

- Wear adequate personal protective equipment, see section 8 ( exposure control / personal protection ).
- Spills should be contained by and carried with suitable absorbent material and removed from disposal.
- Dispose of according to local and national regulations.
- Prevent from entering into soil, waterways and groundwater.

#### **7. HANDLING AND STORAGE**

##### 7.1. 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.

##### 7.2. Storage

Keep containers tightly closed. Store in a well ventilated, cool, dry area. Storage temperature should be higher than +5°C

#### **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

##### 8.1. Exposure limit values (INGREDIENTS INFORMATION)

###### SODIUM HYDROXIDE

MAK ( Deutschland, TRGS 900 )	=	2 E mg/m <sup>3</sup>
TLV-TWA	=	NAv
TLV-STEL	=	2 mg/m <sup>3</sup>

###### DIETHYLENE GLYCOL

MAK ( Deutschland, TRGS 900 )	=	10 ppm - 44 mg/m <sup>3</sup>
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###### BENZOIC ACID DERIVATIVE

MAK ( Deutschland, TRGS 900 )	=	NAv
TLV-TWA	=	NAv

###### ETHANESULPHONIC ACID, 2,2'-(HYDROXYIMINO) BIS, DISODIUM SALT

MAK ( Deutschland, TRGS 900 )	=	NAv
-------------------------------	---	-----

###### P-PHENYLENEDIAMINE DERIVATIVE

MAK ( Deutschland, TRGS 900 )	=	NAv
TLV-TWA	=	NAv

###### POTASSIUM CARBONATE

MAK ( Deutschland, TRGS 900 ) = NAv  
 TLV-TWA = NAv

## 8.2. Exposure controls

Respiratory protection: no respiratory protection needed under normal conditions. Good ventilation should be sufficient.

Hand protection: use chemical resistant gloves. In case of prolonged immersion or frequently repeated contact use gloves made of the materials:  
 nitrile rubber (thickness  $\geq$  0,38 mm, breakthrough time  $>$  480 min)  
 neoprene (thickness  $\geq$  0,65 mm, breakthrough time  $>$  240 min).

butyl rubber (thickness  $\geq$  0,36 mm, breakthrough time  $>$  480 min)

For intermittent splash protection corresponding gloves with breakthrough time  $>$  60 min can be used.

Avoid gloves made of : natural rubber.

Eye protection: use chemical safety goggles. Eye wash fountain should be located in immediate work area.

Other: appropriate protective clothing.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : Liquid  
 Colour : Yellow  
 Flash point °C : NA  
 pH value (25°C) : 13,3  
 Density (20°C) Kg/L : 1,188  
 Solubility in water (25°C) : Completely Soluble

## **10. STABILITY AND REACTIVITY**

### 10.1. Conditions to avoid

The product is stable under normal storage conditions.

### 10.2. Materials to avoid

Keep away from acids.

Keep away from oxidising material(s).

### 10.3. Hazardous decomposition products

Formation of CO<sub>2</sub>, CO, NO<sub>x</sub> is possible.

## **11. TOXICOLOGICAL INFORMATION**

### Acute toxicity (INGREDIENTS INFORMATION)

#### SODIUM HYDROXIDE

LD50 (Oral Rat) = NAv

#### DIETHYLENE GLYCOL

LD50 (Oral Rat) = 12565 mg/kg

LD50 (Dermal rabbit) = 11890 mg/kg

#### BENZOIC ACID DERIVATIVE

LD50 (Oral Rat) =  $>$  2000 mg/kg

#### ETHANESULPHONIC ACID, 2,2'-(HYDROXYIMINO) BIS, DISODIUM SALT

LD50 (Oral Rat) =  $>$  2000 mg/kg

#### P-PHENYLENEDIAMINE DERIVATIVE

LD50 (Oral Rat) = 152-931 mg/kg

#### POTASSIUM CARBONATE

LD50 (Oral Rat) =  $>$ 2000 mg/kg

### Eye contact

Irritating to eyes.

### Skin contact

Irritating to skin.

May cause sensitization by skin contact.

## **12. ECOLOGICAL INFORMATION**

### 12.1. Ecotoxicity (INGREDIENTS INFORMATION)

#### SODIUM HYDROXIDE

LC50 (Fish, 96 hours) = NAv

#### DIETHYLENE GLYCOL

LC50 (Fish, 96 hours) =  $>$  32000 mg/L

## BENZOIC ACID DERIVATIVE

LC50 (Pimephales promelas, 96h) = &gt; 96.2 mg/l

## ETHANESULPHONIC ACID, 2,2'-(HYDROXYIMINO) BIS, DISODIUM SALT

LC50 (Rainbow trout, 96h) = &gt; 3200 mg/L

## P-PHENYLENEDIAMINE DERIVATIVE

LC50 (Pimephales promelas, 96h) = 6,4 mg/l

## POTASSIUM CARBONATE

LC50 (Fish, 96 hours) = NAv

## 12.2. Mobility

Not available

## 12.3. Persistence and Degradability

Not available

## 12.4. Bioaccumulative potential

Not available

## 12.5. Other adverse effects

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

**13. DISPOSAL CONSIDERATIONS**

Dispose of according to local and national regulations. Containers must be disposed of in accordance with local regulations.

EWC: 09 01 01 Water-based developer and activator solutions

**14. TRANSPORT INFORMATION**

UN N° : 1824

PSN :SODIUM HYDROXIDE, SOLUTION

ADR/RID

Class: 8 Labels :8 Pack. Group:III

Tun.Code :E TREMcard :8.1824B-301 Spec. Prov.:-

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:819 Max Net Qty/Pkg:5L

Cargo Aircraft Only . Pkg Inst:821 Max Net Qty/Pkg:60L

Ltd Qty . Pkg Inst:1L Max Net Qty/Pkg:Y819

**15. REGULATORY INFORMATION**

EU Classification and User Label Information:

Contains : P-PHENYLENEDIAMINE DERIVATIVE  
SODIUM HYDROXIDE

Symbol(s) : Xi N

R(isk) phrase(s) :

R36/38 : Irritating to eyes and skin.

R43 : May cause sensitization by skin contact.

R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects

in the

aquatic environment.

S(afety) phrase(s) :

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.

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.

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Date of issue: 11.05.2006

Supersedes edition of: 27.03.2006  
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NAv : Not available      NA : Not applicable

## RISK PHRASES MENTIONED IN PARAGRAPH 2:

- R22           : Harmful if swallowed.  
R34           : Causes burns.  
R35           : Causes severe burns.  
R36/38       : Irritating to eyes and skin.  
R43           : May cause sensitization by skin contact.  
R50/53       : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R52/53       : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



According to 1907/2006/EC

# MATERIAL SAFETY DATA SHEET

Catalogue N° : 994483 Printing date : 16/08/2008

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

1.1. Identification of the substance or preparation

**FJ CP-48SII P1 B                      550 ML**

1.2. Use of the substance/preparation

Photographic developer

1.3. Company/undertaking identification

FUJIFILM Europe NV	FUJIFILM UK Ltd.
EUROPARK-NOORD 21-22	St. Martins Way
B-9100 SINT NIKLAAS	St. Martins Business Centre
TEL : +32 3 760 02 00	BEDFORD
FAX : +32 3 776 91 22	MK42 OLF
	UNITED KINGDOM

PRODUCTSAFETY@FUJIFILM.EU

1.4. Emergency telephone

+44 844 553 23 12

## 2. HAZARDS IDENTIFICATION

Most important hazards :

May cause sensitization by skin contact.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterisation: aqueous solution

Components contributing to hazard:

w/w%	CAS N°	EINECS N°	Components Symb.    R-phrases
5-10	584-08-7	209-529-3	POTASSIUM CARBONATE Xi R:36/38
1-5	67-43-6	200-652-8	DIETHYLENE TRIAMINE PENTAACETIC ACID Xi R:36
1-5	133986-51-3	407-370-6	HYDROXYLAMINE DERIVATIVE - R:52/53
0,1-1	2634-33-5	220-120-9	1,2-BENZISOTHIAZOLIN-3-ONE XnN R:22-38-41-43-50

## 4. FIRST AID MEASURES

Eye contact

Irrigate with flowing water immediately and continuously for 15 minutes.  
Consult medical personnel.

Skin contact

Immediately flush with plenty of water for at least 15 minutes while  
removing contaminated clothing

### Ingestion

Consult a physician or transport to emergency facility immediately.

### Inhalation

Remove to fresh air. Consult a physician.

### Further information

Overexposure may lead to allergic skin reactions with sensitized people. In this case, seek medical advice.

## **5. FIRE-FIGHTING MEASURES**

### 5.1. Suitable extinguishing media:

Water.

Water fog, carbon dioxide, foam, dry chemicals.

### 5.2. Extinguishing media to avoid:

None under normal conditions.

### 5.3. Further information:

Keep containers cool by spraying with water.

## **6. ACCIDENTAL RELEASE MEASURES**

- Wear adequate personal protective equipment, see section 8 ( exposure control / personal protection ).
- Spills should be contained by and carried with suitable absorbent material and removed from disposal.
- Dispose of according to local and national regulations.
- Prevent from entering into soil, waterways and groundwater.

## **7. HANDLING AND STORAGE**

### 7.1. 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.

### 7.2. Storage

Keep containers tightly closed. Store in a well ventilated, cool, dry area. Storage temperature should be higher than +5°C

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

### 8.1. Exposure limit values (INGREDIENTS INFORMATION)

#### POTASSIUM CARBONATE

MAK ( Deutschland, TRGS 900 ) = NAV

TLV-TWA = NAV

#### DIETHYLENE TRIAMINE PENTAACETIC ACID

MAK ( Deutschland, TRGS 900 ) = NAV

TLV-TWA = NAV

#### HYDROXYLAMINE DERIVATIVE

TLV-TWA = NAV

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

MAK ( Deutschland, TRGS 900 ) = NAV

TLV-TWA = NAV

### 8.2. Exposure controls

Respiratory protection: no respiratory protection needed under normal conditions. Good ventilation should be sufficient.

Hand protection: use chemical resistant gloves. In case of prolonged immersion or frequently repeated contact use gloves made of the materials: nitrile rubber (thickness  $\geq 0,38$  mm, breakthrough time  $> 480$  min) neoprene (thickness  $\geq 0,65$  mm, breakthrough time  $> 240$  min). butyl rubber (thickness  $\geq 0,36$  mm, breakthrough time  $> 480$  min) For intermittent splash protection corresponding gloves with breakthrough time  $> 60$  min can be used.

Avoid gloves made of : natural rubber.

Eye protection: use chemical safety goggles. Eye wash fountain should be located in immediate work area.

Other: appropriate protective clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: Liquid
Flash point °C	: NA
pH value (25°C)	: 9,40
Density (20°C) Kg/L	: 1,193
Solubility in water (25°C)	: Completely Soluble
Viscosity	: As water

**10. STABILITY AND REACTIVITY**

## 10.1. Conditions to avoid

The product is stable under normal storage conditions.

## 10.2. Materials to avoid

None.

## 10.3. Hazardous decomposition products

Formation of CO<sub>2</sub> and CO fumes is possible.

**11. TOXICOLOGICAL INFORMATION**

## Acute toxicity (INGREDIENTS INFORMATION)

## POTASSIUM CARBONATE

LD50 (Oral Rat) = >2000 mg/kg

## DIETHYLENE TRIAMINE PENTAACETIC ACID

LD50 (Oral Rat) = > 2000 mg/kg

## HYDROXYLAMINE DERIVATIVE

LD50 (Oral Rat) = NAv

## 1,2-BENZISOTHIAZOLIN-3-ONE

LD50 (Oral Rat) = 1020 mg/kg

LD50 (Dermal rabbit) = > 2000 mg/kg

## Skin contact

May cause sensitization by skin contact.

**12. ECOLOGICAL INFORMATION**

## 12.1. Ecotoxicity (INGREDIENTS INFORMATION)

## POTASSIUM CARBONATE

LC50 (Fish, 96 hours) = NAv

## DIETHYLENE TRIAMINE PENTAACETIC ACID

LC50 (Fish, 96 hours) = > 100 mg/l

## HYDROXYLAMINE DERIVATIVE

LC50 (Fish, 96 hours) = NAv

## 1,2-BENZISOTHIAZOLIN-3-ONE

LC50 (Fish, 96 hours) = NAv

LC50 (Daphnia, 48h) = 1,5 mg/l

## 12.2. Mobility

Not available

## 12.3. Persistence and Degradability

Not available

## 12.4. Bioaccumulative potential

Not available

## 12.5. Other adverse effects

**13. DISPOSAL CONSIDERATIONS**

Dispose of according to local and national regulations. Containers must be disposed of in accordance with local regulations.

EWC: 09 01 01 Water-based developer and activator solutions

**14. TRANSPORT INFORMATION**

UN N° : -

PSN :NON HAZARDOUS LIQUID

ADR/RID

Class: NA                      Labels :-                      Pack. Group:-

Tun.Code :NA                   TREMcard   :NA                   Spec. Prov.:-  
 Pack. Inst.: -                   Lim. Quant.:-

IMDG  
 Class:       NA                   Subs. Risk :NA                   Pack. Group:NA  
 EmS fire:    NA                   EmS Spill. :NA                   IBC. Inst. :-  
 Pack. Inst.: -                   Lim. Quant.:-                   Mar.Poll:N

ICAO/IATA  
 Class:       NA                   Subs. Risk :NA                   Pack. Group:NA  
 Passenger and Cargo Aircraft.   Pkg Inst:NA                   Max Net Qty/Pkg:NA  
 Cargo Aircraft Only               .           Pkg Inst:NA                   Max Net Qty/Pkg:NA  
 Ltd Qty                           .           Pkg Inst:-                   Max Net Qty/Pkg:-

## **15. REGULATORY INFORMATION**

EU Classification and User Label Information:

Contains : 1,2-BENZISOTHIAZOLIN-3-ONE

Symbol(s) : Xi

R(isk) phrase(s) :

R43       : May cause sensitization by skin contact.

S(afety) phrase(s) :

S24       : Avoid contact with skin.

S37       : Wear suitable gloves.

Other information :

WGK: 1

## **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.

-----  
 Date of issue: 11.05.2006

Supersedes edition of: 01.10.2005  
 -----

NAv : Not available    NA : Not applicable

RISK PHRASES MENTIONED IN PARAGRAPH 2:

R22       : Harmful if swallowed.

R36       : Irritating to eyes.

R36/38    : Irritating to eyes and skin.

R38       : Irritating to skin.

R41       : Risk of serious damage to eyes.

R43       : May cause sensitization by skin contact.

R50       : Very toxic to aquatic organisms.

R52/53    : Harmful to aquatic organisms, may cause long-term adverse effects

in the

aquatic environment.



Overexposure may lead to allergic skin reactions with sensitized people. In this case, seek medical advice.

## **5. FIRE-FIGHTING MEASURES**

### 5.1. Suitable extinguishing media:

Water.

Water fog, carbon dioxide, foam, dry chemicals.

### 5.2. Extinguishing media to avoid:

None under normal conditions.

### 5.3. Further information:

Keep containers cool by spraying with water.

## **6. ACCIDENTAL RELEASE MEASURES**

- Wear adequate personal protective equipment, see section 8 ( exposure control / personal protection ).
- Spills should be contained by and carried with suitable absorbent material and removed from disposal.
- Dispose of according to local and national regulations.
- Prevent from entering into soil, waterways and groundwater.

## **7. HANDLING AND STORAGE**

### 7.1. 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.

### 7.2. Storage

Keep containers tightly closed. Store in a well ventilated, cool, dry area. Storage temperature should be higher than +5°C

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

### 8.1. Exposure limit values (INGREDIENTS INFORMATION)

#### AMMONIUMHYDROXIDE

TLV-TWA = 20 ppm ( 14 mg/m<sup>3</sup> )

TLV-STEL = 50 ppm ( 36 mg/m<sup>3</sup> )

#### BENZOIC ACID DERIVATIVE

MAK ( Deutschland, TRGS 900 ) = NAv

TLV-TWA = NAv

### 8.2. Exposure controls

Respiratory protection: no respiratory protection needed under normal conditions. Good ventilation should be sufficient.

Hand protection: use chemical resistant gloves. In case of prolonged immersion or frequently repeated contact use gloves made of the materials: nitrile rubber (thickness  $\geq$  0,38 mm, breakthrough time  $>$  480 min) neoprene (thickness  $\geq$  0,65 mm, breakthrough time  $>$  240 min). butyl rubber (thickness  $\geq$  0,36 mm, breakthrough time  $>$  480 min) For intermittent splash protection corresponding gloves with breakthrough time  $>$  60 min can be used.

Avoid gloves made of : natural rubber.

Eye protection: use chemical safety goggles. Eye wash fountain should be located in immediate work area.

Other: appropriate protective clothing.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: Liquid
Colour	: Reddish Brown
Flash point °C	: NA
pH value (25°C)	: 6,00
Density (20°C) Kg/L	: 1,101
Solubility in water (25°C)	: Completely Soluble

**10. STABILITY AND REACTIVITY**

## 10.1. Conditions to avoid

The product is stable under normal storage conditions.

## 10.2. Materials to avoid

Keep away from reducing agents.

## 10.3. Hazardous decomposition products

Formation of CO<sub>2</sub>, CO, NO<sub>x</sub>, NH<sub>3</sub> is possible.

**11. TOXICOLOGICAL INFORMATION**

## Acute toxicity (INGREDIENTS INFORMATION)

## AMMONIUMHYDROXIDE

LD50 (Oral Rat) = 350 mg/kg

## BENZOIC ACID DERIVATIVE

LD50 (Oral Rat) = > 2000 mg/kg

## Skin contact

May cause sensitization by skin contact.

**12. ECOLOGICAL INFORMATION**

## 12.1. Ecotoxicity (INGREDIENTS INFORMATION)

## AMMONIUMHYDROXIDE

LC50 (Daphnia, 48h) = 24,5 mg/L

## BENZOIC ACID DERIVATIVE

LC50 (Pimephales promelas, 96h) = > 96.2 mg/l

## 12.2. Mobility

Not available

## 12.3. Persistence and Degradability

Not available

## 12.4. Bioaccumulative potential

Not available

## 12.5. Other adverse effects

**13. DISPOSAL CONSIDERATIONS**

Dispose of according to local and national regulations. Containers must be disposed of in accordance with local regulations.

EWC: 09 01 05 Bleach solutions and bleach fixer solutions

**14. TRANSPORT INFORMATION**

UN N° : -

PSN :NON HAZARDOUS LIQUID

## ADR/RID

Class:	NA	Labels	:-	Pack. Group:-
Tun.Code	:NA	TREMcard	:NA	Spec. Prov.:-
Pack. Inst.:	-			Lim. Quant.:-

## IMDG

Class:	NA	Subs. Risk	:NA	Pack. Group:NA
EmS fire:	NA	EmS Spill.	:NA	IBC. Inst. :-
Pack. Inst.:	-			Lim. Quant.:-
				Mar.Poll:N

## ICAO/IATA

Class:	NA	Subs. Risk	:NA	Pack. Group:NA
Passenger and Cargo Aircraft.		Pkg Inst:	NA	Max Net Qty/Pkg:NA
Cargo Aircraft Only		Pkg Inst:	NA	Max Net Qty/Pkg:NA
Ltd Qty		Pkg Inst:	-	Max Net Qty/Pkg:-

**15. REGULATORY INFORMATION**

## EU Classification and User Label Information:

Contains : BENZOIC ACID DERIVATIVE

Symbol(s) : Xi

R(isk) phrase(s) :

R43 : May cause sensitization by skin contact.

S(afety) phrase(s) :

S24 : Avoid contact with skin.

S37 : Wear suitable gloves.

Other information :

WGK: 2

## **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.

-----  
Date of issue: 01.10.2005

Supersedes edition of: 01.04.2004  
-----

NAv : Not available      NA : Not applicable

RISK PHRASES MENTIONED IN PARAGRAPH 2:

R34 : Causes burns.

R43 : May cause sensitization by skin contact.



According to 1907/2006/EC

# MATERIAL SAFETY DATA SHEET

Catalogue N° : 994509 Printing date : 16/08/2008

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

1.1. Identification of the substance or preparation

**FJ CP-48 SII P2 B 750ML**

1.2. Use of the substance/preparation

Photographic bleach-fix

1.3. Company/undertaking identification

FUJIFILM Europe NV	FUJIFILM UK Ltd.
EUROPARK-NOORD 21-22	St. Martins Way
B-9100 SINT NIKLAAS	St. Martins Business Centre
TEL : +32 3 760 02 00	BEDFORD
FAX : +32 3 776 91 22	MK42 OLF
	UNITED KINGDOM

PRODUCTSAFETY@FUJIFILM.EU

1.4. Emergency telephone

+44 844 553 23 12

## 2. HAZARDS IDENTIFICATION

Most important hazards :

Irritating to eyes and skin.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterisation: aqueous solution

Components contributing to hazard:

w/w%	CAS N°	EINECS N°	Components
			Symb. R-phrases
5-10	10192-30-0	233-469-7	AMMONIUM HYDROGEN SULFITE C R:31-34

## 4. FIRST AID MEASURES

Eye contact

Irrigate with flowing water immediately and continuously for 15 minutes.

Consult medical personnel.

Skin contact

Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing

Ingestion

Consult a physician or transport to emergency facility immediately.

Inhalation

Remove to fresh air. Consult a physician.

Further information

None

## 5. FIRE-FIGHTING MEASURES

5.1. Suitable extinguishing media:

Water.

Water fog, carbon dioxide, foam, dry chemicals.

#### 5.2. Extinguishing media to avoid:

None under normal conditions.

#### 5.3. Further information:

Keep containers cool by spraying with water.

### **6. ACCIDENTAL RELEASE MEASURES**

- Wear adequate personal protective equipment, see section 8 ( exposure control / personal protection ).
- Spills should be contained by and carried with suitable absorbent material and removed from disposal.
- Dispose of according to local and national regulations.
- Prevent from entering into soil, waterways and groundwater.

### **7. HANDLING AND STORAGE**

#### 7.1. 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.

#### 7.2. Storage

Keep containers tightly closed. Store in a well ventilated, cool, dry area. Storage temperature should be higher than +5°C

### **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

#### 8.1. Exposure limit values (INGREDIENTS INFORMATION)

AMMONIUM HYDROGEN SULFITE

MAK ( Deutschland, TRGS 900 ) = NAV

TLV-TWA = NAV

#### 8.2. Exposure controls

Respiratory protection: no respiratory protection needed under normal conditions. Good ventilation should be sufficient.

Hand protection: use chemical resistant gloves. In case of prolonged immersion or frequently repeated contact use gloves made of the materials: nitrile rubber (thickness  $\geq 0,38$  mm, breakthrough time  $> 480$  min) neoprene (thickness  $\geq 0,65$  mm, breakthrough time  $> 240$  min) butyl rubber (thickness  $\geq 0,36$  mm, breakthrough time  $> 480$  min) For intermittent splash protection corresponding gloves with breakthrough time  $> 60$  min can be used.

Avoid gloves made of : natural rubber.

Eye protection: use chemical safety goggles. Eye wash fountain should be located in immediate work area.

Other: appropriate protective clothing.

### **9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: Liquid
Flash point °C	: NA
pH value (25°C)	: 5,75
Density (20°C) Kg/L	: 1,275
Solubility in water (25°C)	: Completely Soluble
Viscosity	: As water

### **10. STABILITY AND REACTIVITY**

#### 10.1. Conditions to avoid

The product is stable under normal storage conditions.

#### 10.2. Materials to avoid

Keep away from reducing agents.

#### 10.3. Hazardous decomposition products

Formation of NH<sub>3</sub>, NO<sub>x</sub>, H<sub>2</sub>S, SO<sub>2</sub> is possible.

**11. TOXICOLOGICAL INFORMATION**

Acute toxicity (INGREDIENTS INFORMATION)

AMMONIUM HYDROGEN SULFITE

LD50 (Oral Rat) = NAv

Eye contact

Irritating to eyes.

Skin contact

Irritating to skin.

**12. ECOLOGICAL INFORMATION**

12.1. Ecotoxicity (INGREDIENTS INFORMATION)

AMMONIUM HYDROGEN SULFITE

LC50 (Fish, 96 hours) = NAv

12.2. Mobility

Not available

12.3. Persistence and Degradability

Not available

12.4. Bioaccumulative potential

Not available

12.5. Other adverse effects

**13. DISPOSAL CONSIDERATIONS**

Dispose of according to local and national regulations. Containers must be disposed of in accordance with local regulations.

EWC: 09 01 05 Bleach solutions and bleach fixer solutions

**14. TRANSPORT INFORMATION**

UN N° : -

PSN :NON HAZARDOUS LIQUID

ADR/RID

Class: NA	Labels :-	Pack. Group:-
Tun.Code :NA	TREMcard :NA	Spec. Prov.:-
Pack. Inst.: -	Lim. Quant.:-	

IMDG

Class: NA	Subs. Risk :NA	Pack. Group:NA
EmS fire: NA	EmS Spill. :NA	IBC. Inst. :-
Pack. Inst.: -	Lim. Quant.:-	Mar.Poll:N

ICAO/IATA

Class: NA	Subs. Risk :NA	Pack. Group:NA
Passenger and Cargo Aircraft.	Pkg Inst:NA	Max Net Qty/Pkg:NA
Cargo Aircraft Only	. Pkg Inst:NA	Max Net Qty/Pkg:NA
Ltd Qty	. Pkg Inst:-	Max Net Qty/Pkg:-

**15. REGULATORY INFORMATION**

EU Classification and User Label Information:

Contains : AMMONIUM HYDROGEN SULFITE

Symbol(s) : Xi

R(isk) phrase(s) :

R36/38 : Irritating to eyes and skin.

S(afety) phrase(s) :

S26 : In case of contact with eyes, rinse immediately with plenty of water and

seek medical advice.

Other information :

WGK: 1

BAG T n° (CH): 601 084

Toxicity class (CH): 4

**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.

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Date of issue: 28.10.2005

Supersedes edition of: 01.10.2005

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NAv : Not available      NA : Not applicable

RISK PHRASES MENTIONED IN PARAGRAPH 2:

R31           :    Contact with acids liberates toxic gas.

R34           :    Causes burns.



According to 1907/2006/EC

# MATERIAL SAFETY DATA SHEET

Catalogue N° : 994491 Printing date : 16/08/2008

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

1.1. Identification of the substance or preparation

**FJ CP-48SII P1 A                      1005 ML**

1.2. Use of the substance/preparation

Photographic developer

1.3. Company/undertaking identification

FUJIFILM Europe NV	FUJIFILM UK Ltd.
EUROPARK-NOORD 21-22	St. Martins Way
B-9100 SINT NIKLAAS	St. Martins Business Centre
TEL : +32 3 760 02 00	BEDFORD
FAX : +32 3 776 91 22	MK42 OLF
	UNITED KINGDOM

PRODUCTSAFETY@FUJIFILM.EU

1.4. Emergency telephone

+44 844 553 23 12

## 2. HAZARDS IDENTIFICATION

Most important hazards :

Irritating to eyes and skin.

May cause sensitization by skin contact.

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

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterisation: aqueous solution

Components contributing to hazard:

w/w%	CAS N°	EINECS N°	Components	
			Symb.	R-phrases
0,5-1,5	1310-73-2	215-185-5		SODIUM HYDROXIDE C R:35
1-5	.	203-872-2		DIETHYLENE GLYCOL Xn R:22
0,5-1,5	111-46-6	.		BENZOIC ACID DERIVATIVE C R:34-43
3-7	15451-00-0	407-370-6		ETHANESULPHONIC ACID, 2,2'-(HYDROXYIMINO) BIS, DISODIUM SALT
3-7	.	247-161-5		- R:52/53
5-10	133986-51-3	209-529-3		P-PHENYLENEDIAMINE DERIVATIVE Xn N R:22-43-50/53
.	25646-71-3	.		POTASSIUM CARBONATE Xi R:36/38
.	584-08-7	.		

#### **4. FIRST AID MEASURES**

##### Eye contact

Irrigate with flowing water immediately and continuously for 15 minutes.  
Consult medical personnel.

##### Skin contact

Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing

##### Ingestion

Consult a physician or transport to emergency facility immediately.

##### Inhalation

Remove to fresh air. Consult a physician.

##### Further information

Overexposure may lead to allergic skin reactions with sensitized people. In this case, seek medical advice.

#### **5. FIRE-FIGHTING MEASURES**

##### 5.1. Suitable extinguishing media:

Water.

Water fog, carbon dioxide, foam, dry chemicals.

##### 5.2. Extinguishing media to avoid:

None under normal conditions.

##### 5.3. Further information:

Keep containers cool by spraying with water.

#### **6. ACCIDENTAL RELEASE MEASURES**

- Wear adequate personal protective equipment, see section 8 ( exposure control / personal protection ).
- Spills should be contained by and carried with suitable absorbent material and removed from disposal.
- Dispose of according to local and national regulations.
- Prevent from entering into soil, waterways and groundwater.

#### **7. HANDLING AND STORAGE**

##### 7.1. 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.

##### 7.2. Storage

Keep containers tightly closed. Store in a well ventilated, cool, dry area. Storage temperature should be higher than +5°C

#### **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

##### 8.1. Exposure limit values (INGREDIENTS INFORMATION)

###### SODIUM HYDROXIDE

MAK ( Deutschland, TRGS 900 )	=	2 E mg/m <sup>3</sup>
TLV-TWA	=	NAv
TLV-STEL	=	2 mg/m <sup>3</sup>

###### DIETHYLENE GLYCOL

MAK ( Deutschland, TRGS 900 )	=	10 ppm - 44 mg/m <sup>3</sup>
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###### BENZOIC ACID DERIVATIVE

MAK ( Deutschland, TRGS 900 )	=	NAv
TLV-TWA	=	NAv

###### ETHANESULPHONIC ACID, 2,2'-(HYDROXYIMINO) BIS, DISODIUM SALT

MAK ( Deutschland, TRGS 900 )	=	NAv
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###### P-PHENYLENEDIAMINE DERIVATIVE

MAK ( Deutschland, TRGS 900 )	=	NAv
TLV-TWA	=	NAv

###### POTASSIUM CARBONATE

MAK ( Deutschland, TRGS 900 ) = NAv  
 TLV-TWA = NAv

## 8.2. Exposure controls

Respiratory protection: no respiratory protection needed under normal conditions. Good ventilation should be sufficient.

Hand protection: use chemical resistant gloves. In case of prolonged immersion or frequently repeated contact use gloves made of the materials:  
 nitrile rubber (thickness  $\geq$  0,38 mm, breakthrough time  $>$  480 min)  
 neoprene (thickness  $\geq$  0,65 mm, breakthrough time  $>$  240 min).

butyl rubber (thickness  $\geq$  0,36 mm, breakthrough time  $>$  480 min)

For intermittent splash protection corresponding gloves with breakthrough time  $>$  60 min can be used.

Avoid gloves made of : natural rubber.

Eye protection: use chemical safety goggles. Eye wash fountain should be located in immediate work area.

Other: appropriate protective clothing.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : Liquid  
 Colour : Yellow  
 Flash point °C : NA  
 pH value (25°C) : 13,3  
 Density (20°C) Kg/L : 1,188  
 Solubility in water (25°C) : Completely Soluble

## **10. STABILITY AND REACTIVITY**

### 10.1. Conditions to avoid

The product is stable under normal storage conditions.

### 10.2. Materials to avoid

Keep away from acids.

Keep away from oxidising material(s).

### 10.3. Hazardous decomposition products

Formation of CO<sub>2</sub>, CO, NO<sub>x</sub> is possible.

## **11. TOXICOLOGICAL INFORMATION**

### Acute toxicity (INGREDIENTS INFORMATION)

#### SODIUM HYDROXIDE

LD50 (Oral Rat) = NAv

#### DIETHYLENE GLYCOL

LD50 (Oral Rat) = 12565 mg/kg

LD50 (Dermal rabbit) = 11890 mg/kg

#### BENZOIC ACID DERIVATIVE

LD50 (Oral Rat) =  $>$  2000 mg/kg

#### ETHANESULPHONIC ACID, 2,2'-(HYDROXYIMINO) BIS, DISODIUM SALT

LD50 (Oral Rat) =  $>$  2000 mg/kg

#### P-PHENYLENEDIAMINE DERIVATIVE

LD50 (Oral Rat) = 152-931 mg/kg

#### POTASSIUM CARBONATE

LD50 (Oral Rat) =  $>$ 2000 mg/kg

### Eye contact

Irritating to eyes.

### Skin contact

Irritating to skin.

May cause sensitization by skin contact.

## **12. ECOLOGICAL INFORMATION**

### 12.1. Ecotoxicity (INGREDIENTS INFORMATION)

#### SODIUM HYDROXIDE

LC50 (Fish, 96 hours) = NAv

#### DIETHYLENE GLYCOL

LC50 (Fish, 96 hours) =  $>$  32000 mg/L

## BENZOIC ACID DERIVATIVE

LC50 (Pimephales promelas, 96h) = &gt; 96.2 mg/l

## ETHANESULPHONIC ACID, 2,2'-(HYDROXYIMINO) BIS, DISODIUM SALT

LC50 (Rainbow trout, 96h) = &gt; 3200 mg/L

## P-PHENYLENEDIAMINE DERIVATIVE

LC50 (Pimephales promelas, 96h) = 6,4 mg/l

## POTASSIUM CARBONATE

LC50 (Fish, 96 hours) = NAv

## 12.2. Mobility

Not available

## 12.3. Persistence and Degradability

Not available

## 12.4. Bioaccumulative potential

Not available

## 12.5. Other adverse effects

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

**13. DISPOSAL CONSIDERATIONS**

Dispose of according to local and national regulations. Containers must be disposed of in accordance with local regulations.

EWC: 09 01 01 Water-based developer and activator solutions

**14. TRANSPORT INFORMATION**

UN N° : 1824

PSN :SODIUM HYDROXIDE, SOLUTION

ADR/RID

Class:	8	Labels	:8	Pack. Group:	III
Tun.Code	:E	TREMc card	:8.1824B-301	Spec. Prov.:	-
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:	819	Max Net Qty/Pkg:	5L
Cargo Aircraft Only	.	Pkg Inst:	821	Max Net Qty/Pkg:	60L
Ltd Qty	.	Pkg Inst:	1L	Max Net Qty/Pkg:	Y819

**15. REGULATORY INFORMATION**

EU Classification and User Label Information:

Contains : P-PHENYLENEDIAMINE DERIVATIVE  
SODIUM HYDROXIDE

Symbol(s) : Xi N

R(isk) phrase(s) :

R36/38 : Irritating to eyes and skin.  
R43 : May cause sensitization by skin contact.  
R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S(afety) phrase(s) :

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.  
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.

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Date of issue: 11.05.2006

Supersedes edition of: 27.03.2006  
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NAv : Not available      NA : Not applicable

**RISK PHRASES MENTIONED IN PARAGRAPH 2:**

R22           : Harmful if swallowed.

R34           : Causes burns.

R35           : Causes severe burns.

R36/38       : Irritating to eyes and skin.

R43           : May cause sensitization by skin contact.

R50/53       : Very toxic to aquatic organisms, may cause long-term adverse effects in

the aquatic environment.

R52/53       : Harmful to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.



According to 1907/2006/EC

# MATERIAL SAFETY DATA SHEET

Catalogue N° : 994491 Printing date : 16/08/2008

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

1.1. Identification of the substance or preparation

**FJ CP-48SII P1 B                      1310 ML**

1.2. Use of the substance/preparation

Photographic developer

1.3. Company/undertaking identification

FUJIFILM Europe NV	FUJIFILM UK Ltd.
EUROPARK-NOORD 21-22	St. Martins Way
B-9100 SINT NIKLAAS	St. Martins Business Centre
TEL : +32 3 760 02 00	BEDFORD
FAX : +32 3 776 91 22	MK42 OLF
	UNITED KINGDOM

PRODUCTSAFETY@FUJIFILM.EU

1.4. Emergency telephone

+44 844 553 23 12

## 2. HAZARDS IDENTIFICATION

Most important hazards :

May cause sensitization by skin contact.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterisation: aqueous solution

Components contributing to hazard:

w/w%	CAS N°	EINECS N°	Components Symb.    R-phrases
5-10	584-08-7	209-529-3	POTASSIUM CARBONATE Xi R:36/38
. 1-5	. 67-43-6	. 200-652-8	DIETHYLENE TRIAMINE PENTAACETIC ACID Xi R:36
. 1-5	. 133986-	. 407-370-6	HYDROXYLAMINE DERIVATIVE - R:52/53
0,1-1	51-3	220-120-9	1,2-BENZISOTHIAZOLIN-3-ONE XnN R:22-38-41-43-50
.	2634-33-5	.	

## 4. FIRST AID MEASURES

Eye contact

Irrigate with flowing water immediately and continuously for 15 minutes.  
Consult medical personnel.

Skin contact

Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing

### Ingestion

Consult a physician or transport to emergency facility immediately.

### Inhalation

Remove to fresh air. Consult a physician.

### Further information

Overexposure may lead to allergic skin reactions with sensitized people. In this case, seek medical advice.

## **5. FIRE-FIGHTING MEASURES**

### 5.1. Suitable extinguishing media:

Water.

Water fog, carbon dioxide, foam, dry chemicals.

### 5.2. Extinguishing media to avoid:

None under normal conditions.

### 5.3. Further information:

Keep containers cool by spraying with water.

## **6. ACCIDENTAL RELEASE MEASURES**

- Wear adequate personal protective equipment, see section 8 ( exposure control / personal protection ).
- Spills should be contained by and carried with suitable absorbent material and removed from disposal.
- Dispose of according to local and national regulations.
- Prevent from entering into soil, waterways and groundwater.

## **7. HANDLING AND STORAGE**

### 7.1. 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.

### 7.2. Storage

Keep containers tightly closed. Store in a well ventilated, cool, dry area. Storage temperature should be higher than +5°C

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

### 8.1. Exposure limit values (INGREDIENTS INFORMATION)

#### POTASSIUM CARBONATE

MAK ( Deutschland, TRGS 900 ) = NAV

TLV-TWA = NAV

#### DIETHYLENE TRIAMINE PENTAACETIC ACID

MAK ( Deutschland, TRGS 900 ) = NAV

TLV-TWA = NAV

#### HYDROXYLAMINE DERIVATIVE

TLV-TWA = NAV

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

MAK ( Deutschland, TRGS 900 ) = NAV

TLV-TWA = NAV

### 8.2. Exposure controls

Respiratory protection: no respiratory protection needed under normal conditions. Good ventilation should be sufficient.

Hand protection: use chemical resistant gloves. In case of prolonged immersion or frequently repeated contact use gloves made of the materials: nitrile rubber (thickness  $\geq$  0,38 mm, breakthrough time  $>$  480 min) neoprene (thickness  $\geq$  0,65 mm, breakthrough time  $>$  240 min). butyl rubber (thickness  $\geq$  0,36 mm, breakthrough time  $>$  480 min) For intermittent splash protection corresponding gloves with breakthrough time  $>$  60 min can be used.

Avoid gloves made of : natural rubber.

Eye protection: use chemical safety goggles. Eye wash fountain should be located in immediate work area.

Other: appropriate protective clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: Liquid
Flash point °C	: NA
pH value (25°C)	: 9,40
Density (20°C) Kg/L	: 1,193
Solubility in water (25°C)	: Completely Soluble
Viscosity	: As water

**10. STABILITY AND REACTIVITY**

## 10.1. Conditions to avoid

The product is stable under normal storage conditions.

## 10.2. Materials to avoid

None.

## 10.3. Hazardous decomposition products

Formation of CO<sub>2</sub> and CO fumes is possible.

**11. TOXICOLOGICAL INFORMATION**

## Acute toxicity (INGREDIENTS INFORMATION)

## POTASSIUM CARBONATE

LD50 (Oral Rat) = >2000 mg/kg

## DIETHYLENE TRIAMINE PENTAACETIC ACID

LD50 (Oral Rat) = > 2000 mg/kg

## HYDROXYLAMINE DERIVATIVE

LD50 (Oral Rat) = NAv

## 1,2-BENZISOTHIAZOLIN-3-ONE

LD50 (Oral Rat) = 1020 mg/kg

LD50 (Dermal rabbit) = > 2000 mg/kg

## Skin contact

May cause sensitization by skin contact.

**12. ECOLOGICAL INFORMATION**

## 12.1. Ecotoxicity (INGREDIENTS INFORMATION)

## POTASSIUM CARBONATE

LC50 (Fish, 96 hours) = NAv

## DIETHYLENE TRIAMINE PENTAACETIC ACID

LC50 (Fish, 96 hours) = > 100 mg/l

## HYDROXYLAMINE DERIVATIVE

LC50 (Fish, 96 hours) = NAv

## 1,2-BENZISOTHIAZOLIN-3-ONE

LC50 (Fish, 96 hours) = NAv

LC50 (Daphnia, 48h) = 1,5 mg/l

## 12.2. Mobility

Not available

## 12.3. Persistence and Degradability

Not available

## 12.4. Bioaccumulative potential

Not available

## 12.5. Other adverse effects

**13. DISPOSAL CONSIDERATIONS**

Dispose of according to local and national regulations. Containers must be disposed of in accordance with local regulations.

EWC: 09 01 01 Water-based developer and activator solutions

**14. TRANSPORT INFORMATION**

UN N° : -

PSN :NON HAZARDOUS LIQUID

ADR/RID

Class: NA                      Labels :-                      Pack. Group:-

Tun.Code :NA                   TREMcard   :NA                   Spec. Prov.:-  
 Pack. Inst.: -                   Lim. Quant.:-

IMDG  
 Class:       NA                   Subs. Risk :NA                   Pack. Group:NA  
 EmS fire:    NA                   EmS Spill. :NA                   IBC. Inst. :-  
 Pack. Inst.: -                   Lim. Quant.:-                   Mar.Poll:N

ICAO/IATA  
 Class:       NA                   Subs. Risk :NA                   Pack. Group:NA  
 Passenger and Cargo Aircraft.   Pkg Inst:NA                   Max Net Qty/Pkg:NA  
 Cargo Aircraft Only               .           Pkg Inst:NA                   Max Net Qty/Pkg:NA  
 Ltd Qty                               .           Pkg Inst:-                   Max Net Qty/Pkg:-

## **15. REGULATORY INFORMATION**

EU Classification and User Label Information:

Contains : 1,2-BENZISOTHIAZOLIN-3-ONE

Symbol(s) : Xi

R(isk) phrase(s) :

R43       : May cause sensitization by skin contact.

S(afety) phrase(s) :

S24       : Avoid contact with skin.

S37       : Wear suitable gloves.

Other information :

WGK: 1

## **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.

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 Date of issue: 11.05.2006

Supersedes edition of: 01.10.2005  
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NAv : Not available    NA : Not applicable

RISK PHRASES MENTIONED IN PARAGRAPH 2:

R22       : Harmful if swallowed.

R36       : Irritating to eyes.

R36/38    : Irritating to eyes and skin.

R38       : Irritating to skin.

R41       : Risk of serious damage to eyes.

R43       : May cause sensitization by skin contact.

R50       : Very toxic to aquatic organisms.

R52/53    : Harmful to aquatic organisms, may cause long-term adverse effects

in the

aquatic environment.



According to 1907/2006/EC

# MATERIAL SAFETY DATA SHEET

Catalogue N° : 994517 Printing date : 16/08/2008

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

1.1. Identification of the substance or preparation

**FJ CP-48SII P2 A                      1691ML**

1.2. Use of the substance/preparation

Photographic bleach-fix

1.3. Company/undertaking identification

FUJIFILM Europe NV	FUJIFILM UK Ltd.
EUROPARK-NOORD 21-22	St. Martins Way
B-9100 SINT NIKLAAS	St. Martins Business Centre
TEL : +32 3 760 02 00	BEDFORD
FAX : +32 3 776 91 22	MK42 OLF
	UNITED KINGDOM

PRODUCTSAFETY@FUJIFILM.EU

1.4. Emergency telephone

+44 844 553 23 12

## 2. HAZARDS IDENTIFICATION

Most important hazards :

May cause sensitization by skin contact.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterisation: aqueous solution

Components contributing to hazard:

w/w%	CAS N°	EINECS N°	Components
			Symb. R-phrases
1-5	1336-21-6	215-647-6	AMMONIUMHYDROXIDE C R:34
1-5	15451-00-0	.	BENZOIC ACID DERIVATIVE C R:34-43

## 4. FIRST AID MEASURES

Eye contact

Irrigate with flowing water immediately and continuously for 15 minutes.  
Consult medical personnel.

Skin contact

Immediately flush with plenty of water for at least 15 minutes while  
removing contaminated clothing

Ingestion

Consult a physician or transport to emergency facility immediately.

Inhalation

Remove to fresh air. Consult a physician.

Further information

Overexposure may lead to allergic skin reactions with sensitized people. In this case, seek medical advice.

## **5. FIRE-FIGHTING MEASURES**

### 5.1. Suitable extinguishing media:

Water.

Water fog, carbon dioxide, foam, dry chemicals.

### 5.2. Extinguishing media to avoid:

None under normal conditions.

### 5.3. Further information:

Keep containers cool by spraying with water.

## **6. ACCIDENTAL RELEASE MEASURES**

- Wear adequate personal protective equipment, see section 8 ( exposure control / personal protection ).
- Spills should be contained by and carried with suitable absorbent material and removed from disposal.
- Dispose of according to local and national regulations.
- Prevent from entering into soil, waterways and groundwater.

## **7. HANDLING AND STORAGE**

### 7.1. 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.

### 7.2. Storage

Keep containers tightly closed. Store in a well ventilated, cool, dry area. Storage temperature should be higher than +5°C

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

### 8.1. Exposure limit values (INGREDIENTS INFORMATION)

#### AMMONIUMHYDROXIDE

TLV-TWA = 20 ppm ( 14 mg/m<sup>3</sup> )

TLV-STEL = 50 ppm ( 36 mg/m<sup>3</sup> )

#### BENZOIC ACID DERIVATIVE

MAK ( Deutschland, TRGS 900 ) = NAv

TLV-TWA = NAv

### 8.2. Exposure controls

Respiratory protection: no respiratory protection needed under normal conditions. Good ventilation should be sufficient.

Hand protection: use chemical resistant gloves. In case of prolonged immersion or frequently repeated contact use gloves made of the materials: nitrile rubber (thickness  $\geq$  0,38 mm, breakthrough time  $>$  480 min) neoprene (thickness  $\geq$  0,65 mm, breakthrough time  $>$  240 min). butyl rubber (thickness  $\geq$  0,36 mm, breakthrough time  $>$  480 min) For intermittent splash protection corresponding gloves with breakthrough time  $>$  60 min can be used.

Avoid gloves made of : natural rubber.

Eye protection: use chemical safety goggles. Eye wash fountain should be located in immediate work area.

Other: appropriate protective clothing.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: Liquid
Colour	: Reddish Brown
Flash point °C	: NA
pH value (25°C)	: 6,00
Density (20°C) Kg/L	: 1,101
Solubility in water (25°C)	: Completely Soluble

**10. STABILITY AND REACTIVITY**

## 10.1. Conditions to avoid

The product is stable under normal storage conditions.

## 10.2. Materials to avoid

Keep away from reducing agents.

## 10.3. Hazardous decomposition products

Formation of CO<sub>2</sub>, CO, NO<sub>x</sub>, NH<sub>3</sub> is possible.

**11. TOXICOLOGICAL INFORMATION**

## Acute toxicity (INGREDIENTS INFORMATION)

## AMMONIUMHYDROXIDE

LD50 (Oral Rat) = 350 mg/kg

## BENZOIC ACID DERIVATIVE

LD50 (Oral Rat) = > 2000 mg/kg

## Skin contact

May cause sensitization by skin contact.

**12. ECOLOGICAL INFORMATION**

## 12.1. Ecotoxicity (INGREDIENTS INFORMATION)

## AMMONIUMHYDROXIDE

LC50 (Daphnia, 48h) = 24,5 mg/L

## BENZOIC ACID DERIVATIVE

LC50 (Pimephales promelas, 96h) = > 96.2 mg/l

## 12.2. Mobility

Not available

## 12.3. Persistence and Degradability

Not available

## 12.4. Bioaccumulative potential

Not available

## 12.5. Other adverse effects

**13. DISPOSAL CONSIDERATIONS**

Dispose of according to local and national regulations. Containers must be disposed of in accordance with local regulations.

EWC: 09 01 05 Bleach solutions and bleach fixer solutions

**14. TRANSPORT INFORMATION**

UN N° : -

PSN :NON HAZARDOUS LIQUID

## ADR/RID

Class:	NA	Labels	:-	Pack. Group:-
Tun.Code	:NA	TREMcard	:NA	Spec. Prov.:-
Pack. Inst.:	-	Lim. Quant.:-		

## IMDG

Class:	NA	Subs. Risk	:NA	Pack. Group:NA
EmS fire:	NA	EmS Spill.	:NA	IBC. Inst. :-
Pack. Inst.:	-	Lim. Quant.:-		Mar.Poll:N

## ICAO/IATA

Class:	NA	Subs. Risk	:NA	Pack. Group:NA
Passenger and Cargo Aircraft.		Pkg Inst:NA		Max Net Qty/Pkg:NA
Cargo Aircraft Only		Pkg Inst:NA		Max Net Qty/Pkg:NA
Ltd Qty		Pkg Inst:-		Max Net Qty/Pkg:-

**15. REGULATORY INFORMATION**

## EU Classification and User Label Information:

Contains : BENZOIC ACID DERIVATIVE

Symbol(s) : Xi

R(isk) phrase(s) :

R43 : May cause sensitization by skin contact.

S(afety) phrase(s) :

S24 : Avoid contact with skin.

S37 : Wear suitable gloves.

Other information :

WGK: 2

## **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.

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Date of issue: 01.10.2005

Supersedes edition of: 01.04.2004  
-----

NAv : Not available      NA : Not applicable

RISK PHRASES MENTIONED IN PARAGRAPH 2:

R34 : Causes burns.

R43 : May cause sensitization by skin contact.



Water.

Water fog, carbon dioxide, foam, dry chemicals.

#### 5.2. Extinguishing media to avoid:

None under normal conditions.

#### 5.3. Further information:

Keep containers cool by spraying with water.

### **6. ACCIDENTAL RELEASE MEASURES**

- Wear adequate personal protective equipment, see section 8 ( exposure control / personal protection ).
- Spills should be contained by and carried with suitable absorbent material and removed from disposal.
- Dispose of according to local and national regulations.
- Prevent from entering into soil, waterways and groundwater.

### **7. HANDLING AND STORAGE**

#### 7.1. 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.

#### 7.2. Storage

Keep containers tightly closed. Store in a well ventilated, cool, dry area. Storage temperature should be higher than +5°C

### **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

#### 8.1. Exposure limit values (INGREDIENTS INFORMATION)

AMMONIUM HYDROGEN SULFITE

MAK ( Deutschland, TRGS 900 ) = NAV

TLV-TWA = NAV

#### 8.2. Exposure controls

Respiratory protection: no respiratory protection needed under normal conditions. Good ventilation should be sufficient.

Hand protection: use chemical resistant gloves. In case of prolonged immersion or frequently repeated contact use gloves made of the materials: nitrile rubber (thickness  $\geq 0,38$  mm, breakthrough time  $> 480$  min) neoprene (thickness  $\geq 0,65$  mm, breakthrough time  $> 240$  min) butyl rubber (thickness  $\geq 0,36$  mm, breakthrough time  $> 480$  min) For intermittent splash protection corresponding gloves with breakthrough time  $> 60$  min can be used.

Avoid gloves made of : natural rubber.

Eye protection: use chemical safety goggles. Eye wash fountain should be located in immediate work area.

Other: appropriate protective clothing.

### **9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: Liquid
Flash point °C	: NA
pH value (25°C)	: 5,75
Density (20°C) Kg/L	: 1,275
Solubility in water (25°C)	: Completely Soluble
Viscosity	: As water

### **10. STABILITY AND REACTIVITY**

#### 10.1. Conditions to avoid

The product is stable under normal storage conditions.

#### 10.2. Materials to avoid

Keep away from reducing agents.

#### 10.3. Hazardous decomposition products

Formation of NH<sub>3</sub>, NO<sub>x</sub>, H<sub>2</sub>S, SO<sub>2</sub> is possible.

**11. TOXICOLOGICAL INFORMATION**

Acute toxicity (INGREDIENTS INFORMATION)

AMMONIUM HYDROGEN SULFITE

LD50 (Oral Rat) = NAv

Eye contact

Irritating to eyes.

Skin contact

Irritating to skin.

**12. ECOLOGICAL INFORMATION**

12.1. Ecotoxicity (INGREDIENTS INFORMATION)

AMMONIUM HYDROGEN SULFITE

LC50 (Fish, 96 hours) = NAv

12.2. Mobility

Not available

12.3. Persistence and Degradability

Not available

12.4. Bioaccumulative potential

Not available

12.5. Other adverse effects

**13. DISPOSAL CONSIDERATIONS**

Dispose of according to local and national regulations. Containers must be disposed of in accordance with local regulations.

EWC: 09 01 05 Bleach solutions and bleach fixer solutions

**14. TRANSPORT INFORMATION**

UN N° : -

PSN :NON HAZARDOUS LIQUID

ADR/RID

Class: NA	Labels :-	Pack. Group:-
Tun.Code :NA	TREMcard :NA	Spec. Prov.:-
Pack. Inst.: -		Lim. Quant.:-

IMDG

Class: NA	Subs. Risk :NA	Pack. Group:NA
EmS fire: NA	EmS Spill. :NA	IBC. Inst. :-
Pack. Inst.: -		Lim. Quant.:- Mar.Poll:N

ICAO/IATA

Class: NA	Subs. Risk :NA	Pack. Group:NA
Passenger and Cargo Aircraft.	Pkg Inst:NA	Max Net Qty/Pkg:NA
Cargo Aircraft Only	. Pkg Inst:NA	Max Net Qty/Pkg:NA
Ltd Qty	. Pkg Inst:-	Max Net Qty/Pkg:-

**15. REGULATORY INFORMATION**

EU Classification and User Label Information:

Contains : AMMONIUM HYDROGEN SULFITE

Symbol(s) : Xi

R(isk) phrase(s) :

R36/38 : Irritating to eyes and skin.

S(afety) phrase(s) :

S26 : In case of contact with eyes, rinse immediately with plenty of water and

seek medical advice.

Other information :

WGK: 1

BAG T n° (CH): 601 084

Toxicity class (CH): 4

**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.

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Date of issue: 28.10.2005

Supersedes edition of: 01.10.2005

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NAv : Not available      NA : Not applicable

RISK PHRASES MENTIONED IN PARAGRAPH 2:

R31           :    Contact with acids liberates toxic gas.

R34           :    Causes burns.