

Material Safety Data Sheets FUJIFILM UK Ltd

Chemical system: New CP49E

Paper processor model:

**Fuji Frontier 340 / 570 / 500 / 590 / 710 / 770 – Version
New CP49E**

Contents:

Product	Product No. (SDS)	Current update
Cartridge		
FJ CP-49E PC P1R EZII	992990	06.08.07
FJ CP-49E PC P2RA EZII	992990	02.06.08
FJ CP-49E PC P2RB EZII	992990	02.06.08
FJ SUPERCONDITIONING TABLETS 100 PCE	961847	01.10.05
Start-up kits		
CP49E P1 STARTUP CLDEV A 356ml	992206	06.08.07
FJ CP49E P1 STARTUP COLOUR DEVELOPER B 377ml	992206	11.05.06
CP49E P2 STARTUP BLFIX A 500ml	992214	02.06.08
FJ CP49E P2 STARTUP BLEACHFIX B 661ml	992214	01.10.05

(35 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

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



According to 1907/2006/EC

MATERIAL SAFETY DATA SHEET

Catalogue N° : 992990 Printing date : 06/09/2008

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

1.1. Identification of the substance or preparation

FJ CP-49E PC P1R EZII

1.2. Use of the substance/preparation

Photographic developer

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 :

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
0,1-1	1310-73-2	215-185-5		SODIUM HYDROXIDE
.	.	.		C R:35
3-7	.	211-522-5		ARYL SULFONATE
.	657-84-	.		Xi R:36/37/38
0,5-1,5	1	.		BENZOIC ACID DERIVATIVE
.	.	.		C R:34-43
1-5	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
.	133986-	.		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 ³
TLV-TWA	=	NAv
TLV-STEL	=	2 mg/m ³

ARYL SULFONATE

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

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) : 13,0
 Density (20°C) Kg/L : 1,215
 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 acids.

Keep away from oxidising material(s).

10.3. Hazardous decomposition products

Formation of CO₂, CO, NO_x is possible.

11. TOXICOLOGICAL INFORMATION

Acute toxicity (INGREDIENTS INFORMATION)

SODIUM HYDROXIDE

LD50 (Oral Rat) = NAv

ARYL SULFONATE

LD50 (Oral Rat) = NAv

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

ARYL SULFONATE

LC50 (Fish, 96 hours) = NAV
 BENZOIC ACID DERIVATIVE
 LC50 (Pimephales promelas, 96h) = > 96.2 mg/l
 ETHANESULPHONIC ACID, 2,2'-(HYDROXYIMINO) BIS, DISODIUM SALT
 LC50 (Rainbow trout, 96h) = > 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° : 3266

PSN :CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.

(Caustic carbonate solution)

ADR/RID

Class: 8 Labels :8 Pack. Group:III
 Tun.Code :E TREMcard :8.3266I-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

EU Classification and User Label Information:

Contains : P-PHENYLENEDIAMINE DERIVATIVE
 BENZOIC ACID 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.

Date of issue: 06.08.2007

Supersedes edition of: -

NAv : Not available NA : Not applicable

RISK PHRASES MENTIONED IN PARAGRAPH 2:

R22 : Harmful if swallowed.

R34 : Causes burns.

R35 : Causes severe burns.

R36/37/38: Irritating to eyes, respiratory system and skin.

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° : 992990 Printing date : 06/09/2008

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

1.1. Identification of the substance or preparation

FJ CP-49E PC P2RA EZII

1.2. Use of the substance/preparation

Photographic bleach-fix

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 :

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	15451-00-0	.	BENZOIC ACID DERIVATIVE C R:34-43
. 1-5	. 110-	. 203-740-4	SUCCINIC ACID Xi R:41
. 1-5	. 15-6	. 229-347-8	AMMONIUM NITRATE O R:8-9
. .	. 6484-52-2	. .	

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)

BENZOIC ACID DERIVATIVE

MAK (Deutschland, TRGS 900) = NAV

TLV-TWA = NAV

SUCCINIC ACID

MAK (Deutschland, TRGS 900) = NAV

TLV-TWA = NAV

AMMONIUM NITRATE

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)	: 4,50

Density (20°C) Kg/L : 1,153
 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 CO₂, CO, NO_x, NH₃ is possible.

11. TOXICOLOGICAL INFORMATION

Acute toxicity (INGREDIENTS INFORMATION)

BENZOIC ACID DERIVATIVE

LD50 (Oral Rat) = > 2000 mg/kg

SUCCINIC ACID

LD50 (Oral Rat) = 2260 mg/kg

AMMONIUM NITRATE

LD50 (Oral Rat) = 2217 mg/kg

Skin contact

May cause sensitization by skin contact.

12. ECOLOGICAL INFORMATION

12.1. Ecotoxicity (INGREDIENTS INFORMATION)

BENZOIC ACID DERIVATIVE

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

SUCCINIC ACID

LC50 (Fish, 96 hours) = NAv

AMMONIUM NITRATE

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	TREMc card	: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: 02.06.2008

Supersedes edition of: -

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.



According to 1907/2006/EC

MATERIAL SAFETY DATA SHEET

Catalogue N° : 992990 Printing date : 06/09/2008

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

1.1. Identification of the substance or preparation

FJ CP-49E PC P2RB EZII

1.2. Use of the substance/preparation

Photographic bleach-fix

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 :

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 NH₃, NO_x, H₂S, SO₂ 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.

Date of issue: 02.06.2008

Supersedes edition of: -

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 CO₂, CO and Cl₂ 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° : 992206 Printing date : 19/07/2008

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

1.1. Identification of the substance or preparation

CP49E P1 STARTUP CLDEV A 356ML

1.2. Use of the substance/preparation

Photographic developer

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 :

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
0,1-1	1310-73-2	215-185-5		SODIUM HYDROXIDE
.	.	.		C R:35
3-7	.	211-522-5		ARYL SULFONATE
.	657-84-	.		Xi R:36/37/38
0,5-1,5	1	.		BENZOIC ACID DERIVATIVE
.	.	.		C R:34-43
1-5	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
.	133986-	.		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/m³

TLV-TWA = NAV

TLV-STEL = 2 mg/m³

ARYL SULFONATE

MAK (Deutschland, TRGS 900) = NAV

TLV-TWA = NAV

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) : 13,0
 Density (20°C) Kg/L : 1,215
 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 acids.
 Keep away from oxidising material(s).

10.3. Hazardous decomposition products

Formation of CO₂, CO, NO_x is possible.

11. TOXICOLOGICAL INFORMATION**Acute toxicity (INGREDIENTS INFORMATION)****SODIUM HYDROXIDE**

LD50 (Oral Rat) = NAv

ARYL SULFONATE

LD50 (Oral Rat) = NAv

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

ARYL SULFONATE

LC50 (Fish, 96 hours) = NAV
 BENZOIC ACID DERIVATIVE
 LC50 (Pimephales promelas, 96h) = > 96.2 mg/l
 ETHANESULPHONIC ACID, 2,2'-(HYDROXYIMINO) BIS, DISODIUM SALT
 LC50 (Rainbow trout, 96h) = > 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° : 3266

PSN :CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.

(Caustic carbonate solution)

ADR/RID

Class: 8 Labels :8 Pack. Group:III
 Tun.Code :E TREMcard :8.3266I-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

EU Classification and User Label Information:

Contains : P-PHENYLENEDIAMINE DERIVATIVE
 BENZOIC ACID 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.

Date of issue: 06.08.2007
Supersedes edition of: -

NAv : Not available NA : Not applicable

RISK PHRASES MENTIONED IN PARAGRAPH 2:

R22 : Harmful if swallowed.
R34 : Causes burns.
R35 : Causes severe burns.
R36/37/38: Irritating to eyes, respiratory system and skin.
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° : 992206 Printing date : 19/07/2008

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

1.1. Identification of the substance or preparation

FJ CP49E P1 STARTUP COLOUR DEVELOPER B 377ML

1.2. Use of the substance/preparation

Photographic developer

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 :

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 CO₂ 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.



According to 1907/2006/EC

MATERIAL SAFETY DATA SHEET

Catalogue N° : 992214 Printing date : 19/07/2008

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

1.1. Identification of the substance or preparation

CP49E P2 STARTUP BLFIX A 500ML

1.2. Use of the substance/preparation

Photographic bleach-fix

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 :

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	15451-00-0	.	BENZOIC ACID DERIVATIVE	
.	.	.	C R:34-43	
1-5	110-	203-740-4	SUCCINIC ACID	
.	15-6	.	Xi R:41	
1-5	15-6	229-347-8	AMMONIUM NITRATE	
.	6484-52-2	.	O R:8-9	

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)

BENZOIC ACID DERIVATIVE

MAK (Deutschland, TRGS 900) = NAV

TLV-TWA = NAV

SUCCINIC ACID

MAK (Deutschland, TRGS 900) = NAV

TLV-TWA = NAV

AMMONIUM NITRATE

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)	: 4,50

Density (20°C) Kg/L : 1,153
 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 CO₂, CO, NO_x, NH₃ is possible.

11. TOXICOLOGICAL INFORMATION

Acute toxicity (INGREDIENTS INFORMATION)

BENZOIC ACID DERIVATIVE

LD50 (Oral Rat) = > 2000 mg/kg

SUCCINIC ACID

LD50 (Oral Rat) = 2260 mg/kg

AMMONIUM NITRATE

LD50 (Oral Rat) = 2217 mg/kg

Skin contact

May cause sensitization by skin contact.

12. ECOLOGICAL INFORMATION

12.1. Ecotoxicity (INGREDIENTS INFORMATION)

BENZOIC ACID DERIVATIVE

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

SUCCINIC ACID

LC50 (Fish, 96 hours) = NAv

AMMONIUM NITRATE

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: 02.06.2008

Supersedes edition of: -

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.



According to 1907/2006/EC

MATERIAL SAFETY DATA SHEET

Catalogue N° : 992214 Printing date : 19/07/2008

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

1.1. Identification of the substance or preparation

FJ CP49E P2 STARTUP BLEACHFIX B 661ML

1.2. Use of the substance/preparation

Photographic bleach-fix

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 :

Not classified as a hazardous product conform EEC Dangerous Substances Directive and Dangerous Preparation Directive.

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	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)	: 7,00
Density (20°C) Kg/L	: 1,251
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 NH₃, NO_x, H₂S, SO₂ is possible.

11. TOXICOLOGICAL INFORMATION

Acute toxicity (INGREDIENTS INFORMATION)

AMMONIUM HYDROGEN SULFITE

LD50 (Oral Rat) = NAv

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 : -

Symbol(s) :

R(isk) phrase(s) :

R_ : -

S(afety) phrase(s) :

S_ : -

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.

Date of issue: 01.10.2005
Supersedes edition of: 01.04.2004

NAv : Not available NA : Not applicable

RISK PHRASES MENTIONED IN PARAGRAPH 2:

R31 : Contact with acids liberates toxic gas.
R34 : Causes burns.