## **POLYCHROME KIT**



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## **MATERIAL SAFETY DATA SHEETS**

Easy Lith Part A
Easy Lith Part B
Lith Part D
Siena Developer
Siena Additive Chloride
Siena Additive Carbonate

According to 91/155/EWG



## **Developer Easy Lith Part A**

#### EC SAFETY DATA SHEETS ACCORDING TO 91/155/EWG

### **DEVELOPER EASY LITH PART A**

1) substance-/ preparation and company name

Chemical name/ EASY LITH part A Lith developer

Trade name:

Application/use: Photographic developer

Company name: Wolfgang Moersch Photochemie GbR, Am Heideberg 48

D 50354 Hürth

**Telephone:** ++49 22 33 40 18 85

#### 2) composition/details on components

This product is a preparation according to the law for chemicals.

**Description:** 

Aqueous solution containing inorganic and organic substances

Composition/information about the components:

Name	Weight %	CAS no.One	Danger symbol; Danger notes		
hydroquinone	10-15	123-31-9	204-617-8	604-005-00-4	Xn, N; R 22-40-41-43 50
diethylene glycol Other information:	25-30 fu	111-46-6 urther principal in	203-872-2 gredient: Water		

#### 3) Possible risks

**Definition of dangers:** Bad for health: Possibility of irreversible damage if

swallowed. Danger of serious eye damage. Sensitization by

skin contact possible.

Special danger notes for man and environment:

The preparation contains hydroquinone, a substance classified with category 3 producing cancer and changing genetic ancestral estate. (Category 3: Substances, which because of possible carcinogenic

effect on the man give reasons for concern upon which sufficient information for a satisfying judgment is given or substances which because of changing ancestral estate give reason for a concern.

These dangers can occur if these substances are taken in.

#### 4) first aid pecautions

**General notes:** change contaminated, wet clothing.

consult a doctor.

**After breathing in:** None of special precautions required.

After skin contact: at skin contact wash immediately with water and soap.

Wash clothing before reuse.

After eye contact: At eye contact open eyelids wash with water, then immediately

consult an eye specialist.

Consult eye specialist at eye irritation.

After swallowing: Rinse out mouth with water and drink a lot of water afterwards

According to 91/155/EWG



## **Developer Easy Lith Part A**

**Notes for the doctor**: Don't start any vomiting. Consult doctor.

**Symptoms:** No symptoms confessed till now.

5) PRECAUTIONS for fire fighting

**Suitable extinguishing agents:** Coordinate extinguishing precautions on the surrounding fire.

for security reasons None confessed.

unsuitable extinguishing agents:

**Special endangerings of** released by fire can be: carbon monoxide, carbon dioxide

the substance or the product itself its waste products of combustion or

arising gasses: sulfur dioxide

Special protection equipment

for fire fighting:

Additional notes: Product does not burn.

6) PRECAUTIONS at unintentional release

**Person drawee** Use personal protective clothing.

**Precautions:** 

**Environment protective measures:** Don't let it drain into the sewage system/surface water/ground water.

proceedings for cleaning/binding: liquid binding materials (e.g. sand, pebble sand

sawdust, universal binding agents).

None of special equipment required.

**Additional notes:** Treat the taken material according to waste management section.

7) handling and storage

**Indications for safe contact:** At proper use none of special precautions

required.

**Points on fire-and**The product is not combustible.

explosion protection:

Requirements on storerooms None of special requirements necessary. Keep container tightly

and containers: closed.

**Together storage notes:** None of special precautions required.

More details on

**Storage conditions:** Recommended storage temperature: 5 to 25 C

Store class: LGK 12 (VCI strategy)

8)outline demarcation and personal protection equipment

**Additional indications for arrangement**See section 7; no requirements going beyond this.

of technical plants: Components to be

superwised in connection of 111-46-6 diethylenglykol MAK 44 mg/m3

the working place and limiting values 10 ml/m3

Personal protection equipment:

**Breathing protection:** Sufficient ventilation, no additional protection necessary.

**Hand protection:** Gloves. Required qualities: Liquid proof.

According to 91/155/EWG



## **Developer Easy Lith Part A**

**Eye protection:** Safety goggles.

Object protection: personal protective clothing

**Protection-and** Do not eat, drink, smoke sneeze while working.

Wash hands at interruptions

**Hygiene measures:** and work end.

### 9) physical and chemical qualities

Form: Liquid

**Color:** slightly yellow, clear.

Smell:Odorless.pH value:5.5 (25 C)Boiling-point/boiling area: $\geq 100 C$ Melting point/glaze area: $\leq 0 C$ 

Flaming point: Not applicable. Imflammatory/ Not inflammable.

**Catching light temperature:** 

Self flammability:

Not self-flammable
Not combustible.

qualities:

**Danger of explosion:** No danger of explosion.

Vapor pression: Remark: Corresponds to the vapor pression of water.

Density: 1.090 g/cm3 (20 C)
Pouring density: Not applicable.
Solubility into water: Mixable.

in other solvents: No relevant data.

Distribution coefficient No relevant data.

n-Oktanol/water:

**Dynamic viscosity:** no relevant data.

**Solving average salary:** 21% water, 26% organic solvents (diethylenglykol)

Solid salary: 16%

**other details:** There are not further data.

### 10) stability and reactivity

**Stability: Conditions**No decomposition by coorect use.
Contact with strong alkalies

to be avoided:

**Avoiding** Reaction with strong alkalies

Substances: Dangerous

None confessed.

**Educts:** 

Further details: No dangerous reactions at prescribed storage and

handling.

#### 11) details on toxicology

**Toxicological tests:** 

**Acute Toxicity:** Details refer to the main component hydroquinone LD 50, oral rat 320 mg/kg

Specific symptoms in this

**Animal experiment:** 

No relevant data.

According to 91/155/EWG



## **Developer Easy Lith Part A**

Irritation-/ etching effect: The details refer to the technical active agents

(Hydroquinone, //10-15 % ig//)

**Skin:** slightly irritating **Eyes:** strongly irritating

**Sensitization:** Sensitization of skin is possible.

Effect after repeated or longer continuous expose:

Possibility of irreversible damage if swallowed.

Cancer producing, ancestral estate changing

as well as propagation endangering: The preparation contains hydroquinone, a substance classified

with category 3 producing cancer and changing ancestral

estate

(Category 3: Substances, giving concern because of possible carcinogenic and ancestral estate changing effect on the man).

Other details: No further data. Experiences from the practice: No relevant data.

General remarks: There are no toxicologgical data. The classification was carried out

according the calculation proceedings of preparation guideline

(88/379/EEC).

12) details on ecology

There are no data.

**General notes:** The product was not tested.

Remarks: Does not reach by correct use

into the waste water.

13) indications for waste management

**Product:** The corresponding local water-and waste regulations must be

observed. Do not dispose with domestic garbage.

Do not let it get into the sewage system.

**European waste catalog:** 09 00 00: Waste from the photographic industry

09 01 00: Waste from the photographic industry 09 01 01: Developer and activators on water base

**Packing:** Not contaminated packings can be recycled.

Empty packing completely, wash well

(Cleaning agent: water), can be recycled afterwards

14) details on transport

Transport/further details: No dangerous goods according to transport regulations

(ADR/RID IMDG code, ICAO-TI/IATA-DGR)

15) regulations

**Identification** The product is classified and labeled according to EC guidelines

by EC directives: (GefStoffVO)

According to 91/155/EWG



## **Developer Easy Lith Part A**

×

Classification letter: Xn danger symbol:

Danger identification:Bad for healthR sentences:40, 41, 43S sentences:26, 36/37/39

**Remarks:** This classification was carried out according to the calculation method

for preparations guideline (88/379/EEC).

Special identificationregulations for definite

**Preparations:** is alotted

National regulations:

Occupation - Occupation restrictions for being and staunching mothers

restrictions: take into account (§ 5 MuSchuRiV).

Disruptive incident prescription: the Disruptive incident isn't subject.

Prescription about combustible It is not subject to this prescription.

liquids:

**Technical instructions air:** This TA isn't a subject. **Water endangering class** 2 (water endangering)

(WGK): (Classification in accordance with VwVwS, appendix 4)

Other regulations, restrictions and

Ban prescriptions: is alotted

#### 16). other details

Use: Photographic developer

#### **Further information:**

These details refer merely on this above product and not needs to be valid, if this is occurred with another product or in an arbitrary process.

The information corresponds to our today's knowledge, it is correct and complete and with best conscience, given without a guarantee, though. It shall describe our product with a view to safety requirements and has therefore not the meaning to assure of certain qualities. The responsibility of the use of this product remains on the user whether the information is complete and suitable for his special use.

According to 91/155/EWG



## **Developer Easy Lith Part B**

#### EC SAFETY DATA SHEET ACCORDING TO 91/155/EWG

1). substance-/ preparation and company name

Chemical name/ Easy Lith part B

Trade name:

Photographic developer

Application/use:

Company name: Wolfgang Moersch Photochemie, Am Heideberg 48

D 50354 Hürth

++49 22 33 40 18 85 Telephone:

2). composition/details on components

This product is a preparation according to the chemical law.

**Description:** 

Aqueous solution containing inorganic and organic substances

Composition/information about the components:

Weight % Name CAS no. One EC number no. EC index no. Danger symbol; **Danger notes** 

Potassium carbonate 30-40 584-08-7 209-529-3 Xn:

R: 22-

36/37/38

Other information: Principal ingredient: Water

3). possible risks

Name of the dangers: Irritating: Irritates the eyes and the skin.

Special danger notes No dangers to be mentioned particularly. Please, take the

information

Man and environment: of this safety data sheet into account.

4). FIRST AID PRECAUTIONS

**General notes:** change contaminated clothing.

Consult a doctor.

No of special measures required. After breathing in:

At continuing troubles: obtain medical advice.

After skin contact: Wash skin immediately at touch with water and soap.

Wash clothing in front of reuse.

After eye contact: At eye contact, open eyelids then immediately wash with

sufficient

water.

Consult a doctor.

Consult eye specialist at eye irritation. Rinse out mouth and drink a lot of water. Don't start any vomiting. Consult a doctor.

Notes for the doctor:

After swallowing:

Symptoms: No symptoms confessed till now.

5). PRECAUTIONS at fire fighting

Suitable extinguishing agents: Coordinate extinguishing measures on surroundings fire. Security reasons due to EC safetydata sheet According to 91/155/EWG None confessed.



## **Developer Easy Lith Part B**

unsuitable extinguishing agents:

**Special endangerings due to**Released at fire: Carbon monoxide, carbon dioxide

the substance or the product itself Sulfur dioxide.

its waste products of combustion or

arising gasses:

**Special protection equipment** 

None of special measures required.

the fire fighting:

Additional notes: Product doesn't burn.

### 6). PRECAUTIONS at unintentional release

**Person drawee**Use personal protective clothing.

**Precautions:** 

Environment protective measures: Don't let it get into the sewage system/surface water/ground

water

Proceedings on cleaning and binding: Use liquid binding compounds like sawdust, universal

binding

agent

Additional notes: The taken material has to be treated according to section

waste

management

#### 7). handling and storage

Indications for safe contact:Use only in well ventilated areas.Points on fire-andThe product is not combustible.

**Explosion protection:** 

**Requirements on storerooms** None of special requests necessary. Container, thick,

and container:

keep locked.

Together storage notes:

None of special measures required. Recommended storage temperature: 5 to 25 C

More details to Storage conditions:

Store class: LGK 12 (VCI strategy)

#### 8). outline demarcation and personal protection equipment

Additional indications for arrangement See section 7; no measures going beyond this

of technical plants: required.

Components to be

superwised in connection of the working place and limiting values Personal protection equipment:

Breathing protection: Sufficient ventilation.

**Hand protection:** Gloves. Required qualities: Liquid proof, thick.

Eye protection: Safety goggles (basket glasses.)
Object protection: Personal protective clothing.
Protection-and Do not eat, drink or smoke at work.

**Hygiene measures:** Preventive skin protection. Wash hands before breaks and at

work end. Use fatty skin cremes after cleaning.

According to 91/155/EWG



## **Developer Easy Lith Part B**

#### 9). physical and chemical qualities

Form: Liquid

Color:Yellow, clear.Smell:Odorless.pH value:12.3 (25 C)Boiling-point/boiling area: $\geq 100 C$ Melting point/glaze area: $\leq 0 C$ 

Flaming point: Not applicable. Imflammatory/ Not inflammable.

Catching light temperature:

**Self flammability:**Fire promoting
Not self flammable.
Not combustible.

Qualities:

**Danger of explosion:** Not explosion dangered.

**Vapor pression:** Remark: Corresponds to the vapor pression of water.

Density: 1.500 g/cm3 (20 C)
Pouring density: Not applicable.
Solubility in water: Mixable.

in other solvents: There are no data.

Distribution coefficient There are no data.

n-Oktanol/water:

**Dynamic viscosity:** There are no data.

Solving average salary: 41% water Solid salary: 59%

**other details:** There are not further data.

10). stability and reactivity

**Stability:** No decomposition by correct use.

Conditions to be avoided Contact with strong acids.

**Substances to be avoided:** Reaction with strong acids.

**Dangerous** None confessed.

**Educts:** 

Further details: No dangerous reactions at prescribed storage and

handling.

### 11). details on toxicology

Toxikological exams:

**Acute Toxicity:** Details refer to the main components

caliumcarbonate LD 50 oral rat 1870 mg/kg

Specific symptoms in this

Animal experiment: Irritation-/ etching effect:

**Skin:** Slight Irritation effect.

**Eyes:** Irritating.

Sensitization: There are no data.

Effect after repeated or longer continuous expose:

None confessed.

There are no data.

According to 91/155/EWG



## **Developer Easy Lith Part B**

Cancer producing, ancestral estate changing as well as

propagation endangering:

None confessed.

Other details: No further data. Experiences from the practice: There are no data.

General remarks:

There are no toxicological data. This classification is prepared

according to the calculation proceedings of the preparation

guideline

(88/379/EEC).

12). details on ecology

There are no data.

**General notes:** The product was not checked.

Remarks: Does ,by correct use ,not get

into the sewage system.

13). indications for waste management

**Product:** The corresponding legal local-and waste

regulations must be observed. May not be together

disposed with domestic garbage. Do not let it reach into the

sewage

system

**European waste catalog:** 09 00 00: Waste from the photographic industry

09 01 00: Waste from the photographic industry

09 01 01: Developer and activators gates on water base

Packing: Not contaminated packages can be recyled

Empty completely, wash contaminated packages well (Cleaning agent: water), can be recyled afterwards.

14). details on transport

**Transport/further details:** No dangerous goods according to transport regulations

(ADR/RID IMDG code, ICAO-TI/IATA-DGR)

15). Regulations

**Identification** The product is/classified and labeled according to EC

guidelines(GefStoffVO)

by EC directives: labeled.

Classification letter: Xi danger symbol:

Danger name: irritating R sentences: 36/38

S sentences: 26 remarks: the classification is carried

out

According to the calculation method for preparations guideline

(88/379/EEC).

According to 91/155/EWG



## **Developer Easy Lith Part B**

Special identification-

regulations for definite

**Preparations:** is alotted

National regulations:

Occupation - No restrictions.

restrictions:

Disruptive incident prescription (StörfallV): the (Disruptive incident) isn't subject.

**Prescription about combustible** Is no subject for this prescription.

Liquids:

**Technical instructions air:** This (TA) isn't subject.

Water endangering class: 1 (weakly water endangering)

(WGK) (Classification in accordance with VwVwS, appendix 4)

Other regulations, restrictions and

Ban prescriptions: is dropped

#### 16). other details

Use: Photographic developer

**Further information**: These details refer merely on this above product and not needs to be valid, if this is occurred with another product or in an arbitrary process.

The information corresponds to our today's knowledge, it is correct and complete and with best conscience, given without a guarantee, though. It shall describe our product with a view to safety requirements and has therefore not the meaning to assure of certain qualities. The responsibility of the use of this product remains on the user whether the information is complete and suitable for his special use.

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According to 91/155/EWG

## **Developer SE5 Lith Part D**

### 1). substance-/ preparation and company name

**Chemical name/** SE5 Lith part D Lith developer

Trade name:

**Application/use:** Photographic developer

Company name: Wolfgang Moersch Photochemie, Am Heideberg 48

D 50354 Hürth

**Telephone:** ++49 22 33 943137

2). composition/details on components

This product is a preparation according to the chemical law.

Description: Aqueous solution containing mainly inorganic substances

Composition/information about the components:

Name Weight %

Danger symbol: -

Potassium bromide 30 - 40 Nitroindazole 0,1 - 0,5

**Danger notes** 

**Other information:** Principal ingredient: water, potassium bromide

3). Possible risks

Name of dangers: No identification required. Please, take the information of

this

safety data sheet this one into account.

Special danger notes on

Man and environment:

No dangers to be mentioned particularly.

## 4). first aid PRECAUTIONS

**General notes:** change wet, contaminated clothing. **After breathing in:** None of special measures required.

**After skin contact:** Wash at touch the skin with water and soap.

Wash clothing before reuse.

**After eye contact:** At eye contact open eyelids wash with water sufficiently

then immediately consult a doctor.

Consult an eye specialist at eye irritation.

**After swallowing:** Rinse out mouth with water.

Consult doctor.

Notes for the doctor:

**Symptoms:** No symptoms confessed till now.

### 5). PRECAUTIONS on fire fighting

Suitable extinguishing agents: Coordinate extinguishing measures

on surroundings fire.

From security reasons None confessed.

unsuitable extinguishing agents:

**Special endangerings of** Possible releases by fire: Bromine vapors

the substance or the product itself its waste products of combustion or

arising gasses:

Special protection equipment Compressed air breathing apparatuses allowed if the

material burns

the fire fighting: use.

Additional notes: None.

### 6). PRECAUTIONS at unintentional release

**Person drawee**Use personal protective clothing.

**Precautions:** 

Environment protective measures: Do not let it get into the sewage system/surface

water/ground water

Proceedings on cleaning and binding: Use liquid binding compounds like sawdust,

universal binding agent

**Additional notes:** The taken material according to section waste

management treat.

### 7). handling and storage

Indications for safe contact: -

**Points on fire-and** The product is not combustible.

**Explosion protection:** 

**Requirements on storerooms** None of special requests necessary. Container, thick,

and container: keep locked.

**Together storage notes:** None of special measures required.

More details on Recommended storage temperature: 5 to 25 C

Storage conditions:

Store class: LGK 12 (VCI strategy)

### 8). outline demarcation and personal protection equipment

Additional indications for the See section 7; no measures going beyond this

Lay-out of technical plants: required.

Components to be

superwised in connection with

the working place and

limiting values: No-one

Personal protection equipment:

**Breathing protection:** Sufficient ventilation, no additional protection necessary.

**Hand protection:** Gloves. Required qualities: Liquid thick.

**Eye protection:** Safety goggles (basket glasses).

Object protection: personal protective clothing

**Protection-and** Do not eat, drink or sneeze at work.

**Hygiene measures:** Preventive skin protection. Wash hands before the breaks

and

at work end

Use fatty skin cremes after use

### 9). physical and chemical qualities

Form: Liquid

**Color:** Yellow, clear. **Smell:** Not characteristic.

**pH value:** 10.6 (22 C)

**Boiling-point/boiling area:**  $\geq 100 \text{ C}$  **Melting point/glaze area:**  $\leq 0 \text{ C}$ 

Flaming point: Not applicable Imflammatory/ Not inflammable.

**Catching light temperature:** 

**Self-flammable:** Not self flammable. **Fire promoting** Not combustible.

Qualities:

**Danger of explosion:** Not explosion dangerous.

**Vapor pression:** Remark: Corresponds to the vapor pression of water.

**Density:** 1.274 g/cm3 (20 C) **Pouring density:** Not applicable.

Solubility into waters: Mixable.

in other solvents: There are no data.

Distribution coefficient There are no data.

n-Oktanol/water:

**Dynamic viscosity:** There are no data.

Solving average salary: 69% water

Solid salary: 31%

**other details:** There are no further data.

### 10). stability and reactivity

**Stability:** No decomposition at correct use.

**Avoiding** Contact with acids.

**Conditions:** 

**Avoiding** Reaction with acids (formation) of bromine hydrogene.

**Substances:** 

**Dangerous**Only at fire (temperature 750 C) dangerous **Educts:**Bromine vapors can arise (see section 5).

Further details: No dangerous reactions at prescribed storage and

Handling.

### 11). details on the toxicology

**Toxicological exams:** 

Acute Toxicity: None confessed.

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**Irritation-/ etching effect:** 

**Skin:** Slight Irritation effect.

Eyes: Irritation effect.
Sensitization: There are no data.

Effects after repeated or longer, continuous expose:

None confessed.

Cancer producing, ancestral estate changing as well as

propagation endangering qualities:

None confessed.

Other details:

No further data.

**Experiences from the practice:** There are no data.

**General remarks:** There are no Toxicological data. The classification was

carried out according to the calculation proceedings of preparation

guideline (88/379/EEC)

12). details on ecology

There are no data.

**General notes:** The product was not tested.

Remarks: Does not reach ,at correct use,

into the sewage.

13). indications for waste management

**Product:** The corresponding legal local-and waste

regulations must be observed. May not be together

disposed with domestic garbage. Do not let it reach into

the

sewage system

**European waste catalog:**09 00 00: Waste from the photographic industry

09 01 00: Waste from the photographic industry

09 01 01: Developer and activators on water base

Packing: Not contaminated packages can be recyled

Empty completely, wash contaminated packages well (Cleaning agent: water ), can be recyled afterwards

being a reuse supplied.

#### 14). details on transport

Transport/further details:

regulations

No dangerous goods according to the transport

(ADR/RID IMDG code, ICAO-TI/IATA-DGR)

15). Regulations Identification

No identification required.

to EC directives: Is alotted.

Classification letter: Is alotted.
Danger symbol: Is alotted.
Danger name: Is alotted.
R sentences: Is alotted.
S sentences: Is alotted.

**Remarks:** the classification was carried out according to the

calculation method preparation guideline (88/379/EEC)

**Special identification-** Is alotted.

regulations for definite

**Preparations:** 

**National regulations:** 

Occupation - No-one

restrictions:

Disruptive incident prescription: the disruptive incident isn't subject.

**Prescription about combustible**Is not subject to this prescription.

Liquids:

**Technical instructions air:** The (TA) isn't subject.

Water endangering class: 1 (water endangering weakly)
(WGK) (Classification in accordance with VwVwS, appendix 4)

Other regulations, restrictions and Ban prescriptions: is alotted

16). other details

Use: Photographic developer

### Further information:

These details refer merely on this above product and not needs to be valid, if this is occurred with another product or in an arbitrary process.

The information corresponds to our today's knowledge, it is correct and complete and with best conscience, given without a guarantee, though. It shall describe our product with a view to safety requirements and has therefore not the meaning to assure of certain qualities. The responsibility of the use of this product remains on the user whether the information is complete and suitable for his special use.

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REVISION DATE: 28 Jun 2007 PRINTING DATE 02 May 1995

### EC safetydata sheet According to 91/155/EWG



## **Developer SIENA**

1) substance-/ preparation and company name

Chemical name/ Trade name: **SIENA** 

Application/use: Photographic developer

Company name: Wolfgang Moersch Photochemie, Am Heideberg 48

D 50354 Hürth, Germany

++49 22 33 943137 Telephone:

### 2) Hazards identification

MAY BE HARMFUL IF ABSORBED THROUGH SKIN, OR SWALLOWED MAY CAUSE EYE IRRITATION MAY CAUSE ALLERGIC SKIN REACTION

#### 3) composition/details on components

This product is a preparation according to the law for chemicals. Description: Aqueous solution containing inorganic and organic substances

Name	Content	CAS	EINECS	CLASSIFICATION
N-4-HYDROXYPHENYLGLYCINE	10-20%	122-87-2	204-580-8	not classified
DIETHYLENTRIAMINE PENTAACETIC	>0,5%	67-43-6	200-652-8	Xi R-36
ACID NA5				
SODIUM SULPHITE	5-10%	7757-83-7	231-821-4	not classified

Other information: further principal ingredient: Water

4) first aid precautions

**General notes:** change contaminated, wet clothing.

After skin contact: at skin contact wash immediately with water and soap.

Wash clothing before reuse.

At eye contact open eyelids wash with water, then immediately After eye contact:

consult an eye specialist.

Consult eye specialist at eye irritation.

Rinse out mouth with water and drink a lot of water afterwards After swallowing:

5) PRECAUTIONS for fire fighting

Suitable extinguishing agents:

for security reasons

unsuitable extinguishing agents:

Special endangerings of

Coordinate extinguishing precautions on the surrounding fire.

None confessed.

None confessed

According to 91/155/EWG



## **Developer SIENA**

Special protection equipment

for fire fighting:

None of special equipment required.

Additional notes:

Product does not burn.

#### 6) PRECAUTIONS at unintentional release

**Person drawee**Use personal protective clothing.

**Precautions:** 

**Environment protective measures:** Don't let it drain into the sewage system/surface water/ground water.

proceedings for cleaning/binding: liquid binding materials (e.g. sand, pebble sand

sawdust, universal binding agents).

Additional notes: Treat the taken material according to waste management section.

7) handling and storage

**Indications for safe contact:** At proper use none of special precautions required.

**Points on fire-and** The product is not combustible.

explosion protection:

Requirements on storerooms

None of special requirements necessary. Keep container tightly

closed.

Together storage notes:

More details on

and containers:

None of special precautions required.

**Storage conditions:** Recommended storage temperature: 5 to 25 C **Store class:** LGK 12 (VCI strategy)

### 8) outline demarcation and personal protection equipment

### General protective and hygienic measures

The usual precautionary measures should be adhered to general rules for handling chemicals.

Keep away from foodstuffs, beverages and food.

Take off immediately all contaminated clothing

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.
Do not eat, drink or smoke while working.

Breathing equipment: Not required.

Protection of hands: Not required

Eye protection: Tightly sealed safety glasses.

#### 9) physical and chemical qualities

Form: Liquid

Color:Colourless, clear.Smell:Odourless.pH value:7.8 (20 C)Boiling-point/boiling area: $\geq 100 C$ Melting point/glaze area: $\leq 0 C$ 

Flaming point:

Imflammatory/

Not applicable.

Not inflammable.

Catching light temperature:

Self flammability: Not self-flammable

According to 91/155/EWG



## **Developer SIENA**

Fire promoting Not combustible.

qualities:

**Danger of explosion:** No danger of explosion.

**Vapor pression:** Remark: Corresponds to the vapor pression of water.

Density: 1.14 g/ml (20 C)
Pouring density: Not applicable.

Solubility into water: Mixable.

in other solvents:

Distribution coefficient

Dynamic viscosity:

No relevant data.

No relevant data.

No relevant data.

**other details:** There are not further data.

### 10) stability and reactivity

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Dangerous reactions: No dangerous reactions known

Dangerous products of decomposition: No dangerous decomposition products known

#### 11) details on toxicology

**Irritation-/ etching effect:** The details refer to the technical active agents

Skin: slightly irritating Eyes: irritating

**Sensitization:** Sensitization of skin is possible.

Effect after repeated or longer continuous expose:

Possibility of irreversible damage if swallowed.

Other details: No further data.

Experiences from the practice: No relevant data.

General remarks: There are no toxicological data. The classification was carried out

according the calculation proceedings of preparation guideline

(88/379/EEC).

12) details on ecology

There are no data.

**General notes:** The product was not tested.

Remarks: Does not reach by correct use

into the waste water.

13) indications for waste management

**Product:** The corresponding local water-and waste regulations must be

observed. Do not dispose with domestic garbage.

Do not let it get into the sewage system.

**European waste catalog:** 09 00 00: Waste from the photographic industry

09 01 00: Waste from the photographic industry 09 01 01: Developer and activators on water base

**Packing:** Not contaminated packings can be recycled.

Empty packing completely, wash well

(Cleaning agent: water), can be recycled afterwards

### EC safetydata sheet According to 91/155/EWG



## **Developer SIENA**

14) details on transport

**Transport/further details:** No dangerous goods according to transport regulations

(ADR/RID IMDG code, ICAO-TI/IATA-DGR)

15) regulations

The product is classified and labeled according to EC guidelines Identification

by EC directives: ( GefStoffVO)

> Classification letter: none Danger symbol: none

Danger identification: harmful

R sentences:

S sentences: S-2 Keep out of reach of children.

S-26 In case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

S-46 If swallowed seek medical advice immediately and show

this container label.

Remarks: This classification was carried out according to the calculation method

for preparations guideline (88/379/EEC).

Technical instructions air: This TA isn't a subject.

Water endangering class 1 (water endangering)

(WGK): (Classification in accordance with VwVwS, appendix 4)

#### 16). other details

Use: Photographic developer

#### **Further information:**

These details refer merely on this above product and not needs to be valid, if this is occurred with another product or in an arbitrary process.

The information corresponds to our today's knowledge, it is correct and complete and with best conscience, given without a guarantee, though. It shall describe our product with a view to safety requirements and has therefore not the meaning to assure of certain qualities. The responsibility of the use of this product remains on the user whether the information is complete and suitable for his special use.

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**REVISION DATE:** 03 FEB 2002 **PRINTING DATE** 11 NOV 1998



## **Developer SIENA Additive Chloride**

1) substance-/ preparation and company name

Chemical name/ Trade name: Polychrome Additiv Ammonium Chlorid

Application/use: Photographic developer

Company name: Wolfgang Moersch Photochemie, Am Heideberg 48

D 50354 Hürth, Germany

**Telephone:** ++49 22 33 943137

#### 2) Hazards identification

HARMFUL IF SWALLOWED MAY CAUSE EYE IRRITATION

### 3) composition/details on components

This product is a preparation according to the law for chemicals.

Description: Aqueous solution containing inorganic and organic substances

Name	Content	CAS	EINECS	CLASSIFICATION
Ammonium chloride	20-30%	12125-02-9	235-186-4	R22, R36

**Other information:** further principal ingredient: Water

4) first aid precautions

General notes: change contaminated, wet clothing.

After skin contact: at skin contact wash immediately with water and soap.

Wash clothing before reuse.

After eye contact: At eye contact open eyelids wash with water, then immediately

consult an eye specialist.

Consult eye specialist at eye irritation.

After swallowing: Rinse out mouth with water and drink a lot of water afterwards

5) PRECAUTIONS for fire fighting

Suitable extinguishing agents:

5.

Coordinate extinguishing precautions on the surrounding fire.

for security reasons None confessed.

unsuitable extinguishing agents:

Special endangerings of None co

None confessed

Special protection equipment

for fire fighting:

None of special equipment required.

Additional notes: Product does not burn.

### 6) PRECAUTIONS at unintentional release

According to 91/155/EWG



## **Developer SIENA Additive Chloride**

**Person drawee**Use personal protective clothing.

**Precautions:** 

Environment protective measures: Don't let it drain into the sewage system/surface water/ground water.

proceedings for cleaning/binding: liquid binding materials (e.g. sand, pebble sand

sawdust, universal binding agents).

**Additional notes:** Treat the taken material according to waste management section.

7) handling and storage

**Indications for safe contact:** At proper use none of special precautions required.

**Points on fire-and** The product is not combustible.

explosion protection:

and containers: closed.

**Together storage notes:** None of special precautions required.

More details on

**Storage conditions:** Recommended storage temperature: 5 to 25 C

Store class: LGK 12 (VCI strategy)

#### 8) outline demarcation and personal protection equipment

#### General protective and hygienic measures

The usual precautionary measures should be adhered to general rules for handling chemicals.

Keep away from foodstuffs, beverages and food. Take off immediately all contaminated clothing

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

Do not eat, drink or smoke while working.

Breathing equipment: Not required.

Protection of hands: Not required

Eye protection: Tightly sealed safety glasses.

#### 9) physical and chemical qualities

Form: Liquid

Color: Colourless, clear.

Smell:ammoniapH value:7.5 (20 C)Boiling-point/boiling area: $\geq 100 C$ Melting point/glaze area: $\leq 0 C$ 

Flaming point: Not applicable. Imflammatory/ Not inflammable.

Catching light temperature:

Self flammability: Not self-flammable Fire promoting Not combustible.

qualities:

**Danger of explosion:** No danger of explosion.

**Vapor pression:** Remark: Corresponds to the vapor pression of water.

**Density:** 1.08 g/ml (20 C) **Pouring density:** Not applicable.

According to 91/155/EWG



## **Developer SIENA Additive Chloride**

Solubility into water: Mixable.

in other solvents:

Distribution coefficient

Dynamic viscosity:

No relevant data.

No relevant data.

**other details:** There are not further data.

### 10) stability and reactivity

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Dangerous reactions: No dangerous reactions known

Dangerous products of decomposition: No dangerous decomposition products known

#### 11) details on toxicology

Irritation-/ etching effect: The details refer to the technical active agents

**Skin:** slightly irritating

**Eyes:** irritating

Effect after repeated or longer continuous expose:

Possibility of irreversible damage if swallowed.

Other details: No further data. Experiences from the practice: No relevant data.

General remarks: There are no toxicological data. The classification was carried out

according the calculation proceedings of preparation guideline

(88/379/EEC).

12) details on ecology

There are no data.

**General notes:** The product was not tested.

Remarks: Does not reach by correct use

into the waste water.

13) indications for waste management

**Product:** The corresponding local water-and waste regulations must be

observed. Do not dispose with domestic garbage.

Do not let it get into the sewage system.

**European waste catalog:** 09 00 00: Waste from the photographic industry

09 01 00: Waste from the photographic industry 09 01 01: Developer and activators on water base

Packing:

Empty packing completely, wash well

(Cleaning agent: water), can be recycled afterwards

14) details on transport

**Transport/further details:** No dangerous goods according to transport regulations

(ADR/RID IMDG code, ICAO-TI/IATA-DGR)

#### 15) regulations

According to 91/155/EWG



## **Developer SIENA Additive Chloride**

Identification The product is classified and labeled according to EC guidelines

by EC directives: (GefStoffVO)

**Classification letter:** none Danger symbol: none

Danger identification: harmful R sentences: R22, R36

S sentences: S-2 Keep out of reach of children.

Remarks: This classification was carried out according to the calculation method

for preparations guideline (88/379/EEC).

Technical instructions air: This TA isn't a subject. 1 (water endangering) Water endangering class

(WGK): (Classification in accordance with VwVwS, appendix 4)

16). other details

Use: Photographic developer

#### Further information:

These details refer merely on this above product and not needs to be valid, if this is occurred with another product or in an arbitrary process.

The information corresponds to our today's knowledge, it is correct and complete and with best conscience, given without a guarantee, though. It shall describe our product with a view to safety requirements and has therefore not the meaning to assure of certain qualities. The responsibility of the use of this product remains on the user whether the information is complete and suitable for his special use.

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**REVISION DATE:** 08 SEPT 2008 PRINTING DATE 11 NOV 1998



## **Developer SIENA Additive Carbonat**

1) substance-/ preparation and company name

Chemical name/ Trade name: Polychrome Additiv Carbonat

Application/use: Photographic developer

Company name: Wolfgang Moersch Photochemie, Am Heideberg 48

D 50354 Hürth, Germany

**Telephone:** ++49 22 33 943137

#### 2) Hazards identification

HARMFUL IF SWALLOWED MAY CAUSE EYE IRRITATION

### 3) composition/details on components

This product is a preparation according to the law for chemicals.

Description: Aqueous solution containing inorganic and organic substances

Name	Content	CAS	EINECS	CLASSIFICATION
POTASSIUM CARBONATE	10-20%	584-08-7	209-529-3	R-22, 36

**Other information:** further principal ingredient: Water

4) first aid precautions

**General notes:** change contaminated, wet clothing.

After skin contact: at skin contact wash immediately with water and soap.

Wash clothing before reuse.

After eye contact: At eye contact open eyelids wash with water, then immediately

consult an eye specialist.

Consult eye specialist at eye irritation.

After swallowing: Rinse out mouth with water and drink a lot of water afterwards

5) PRECAUTIONS for fire fighting

Suitable extinguishing agents:

ι5.

Coordinate extinguishing precautions on the surrounding fire.

None confessed.

for security reasons unsuitable extinguishing agents:

Special endangerings of

None confessed

Special protection equipment

for fire fighting:

None of special equipment required.

Additional notes: Product does not burn.

### 6) PRECAUTIONS at unintentional release

According to 91/155/EWG



## **Developer SIENA Additive Carbonat**

**Person drawee**Use personal protective clothing.

Precautions:

Environment protective measures: Don't let it drain into the sewage system/surface water/ground water.

proceedings for cleaning/binding: liquid binding materials (e.g. sand, pebble sand

sawdust, universal binding agents).

**Additional notes:** Treat the taken material according to waste management section.

7) handling and storage

**Indications for safe contact:** At proper use none of special precautions required.

**Points on fire-and** The product is not combustible.

explosion protection:

and containers: closed.

**Together storage notes:** None of special precautions required.

More details on

**Storage conditions:** Recommended storage temperature: 5 to 25 C

Store class: LGK 12 (VCI strategy)

#### 8) outline demarcation and personal protection equipment

#### General protective and hygienic measures

The usual precautionary measures should be adhered to general rules for handling chemicals.

Keep away from foodstuffs, beverages and food. Take off immediately all contaminated clothing

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

Do not eat, drink or smoke while working.

Breathing equipment: Not required.

Protection of hands: Not required

Eye protection: Tightly sealed safety glasses.

#### 9) physical and chemical qualities

Form: Liquid

Color:Colourless, clear.Smell:OdourlesspH value:11.3 (20 C)Boiling-point/boiling area: $\geq 100 C$ Melting point/glaze area: $\leq 0 C$ 

Flaming point: Not applicable. Imflammatory/ Not inflammable.

Catching light temperature:

Self flammability:

Fire promoting

Not self-flammable
Not combustible.

qualities:

**Danger of explosion:** No danger of explosion.

**Vapor pression:** Remark: Corresponds to the vapor pression of water.

**Density:** 1.09 g/ml (20 C) **Pouring density:** Not applicable.

According to 91/155/EWG



## **Developer SIENA Additive Carbonat**

Solubility into water: Mixable.

in other solvents:

Distribution coefficient

Dynamic viscosity:

No relevant data.

No relevant data.

**other details:** There are not further data.

### 10) stability and reactivity

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Dangerous reactions: No dangerous reactions known

Dangerous products of decomposition: No dangerous decomposition products known

#### 11) details on toxicology

Irritation-/ etching effect: The details refer to the technical active agents

Skin:

**Eyes:** irritating

Effect after repeated or longer continuous expose:

Possibility of irreversible damage if swallowed.

Other details: No further data. Experiences from the practice: No relevant data.

Occupant managers from the practice. No relevant data.

General remarks: There are no toxicological data. The classification was carried out

according the calculation proceedings of preparation guideline

(88/379/EEC).

12) details on ecology

There are no data.

**General notes:** The product was not tested.

Remarks: Does not reach by correct use

into the waste water.

13) indications for waste management

**Product:** The corresponding local water-and waste regulations must be

observed. Do not dispose with domestic garbage.

Do not let it get into the sewage system.

**European waste catalog:** 09 00 00: Waste from the photographic industry

09 01 00: Waste from the photographic industry 09 01 01: Developer and activators on water base

Packing:

Empty packing completely, wash well

(Cleaning agent: water), can be recycled afterwards

14) details on transport

**Transport/further details:** No dangerous goods according to transport regulations

(ADR/RID IMDG code, ICAO-TI/IATA-DGR)

According to 91/155/EWG



## **Developer SIENA Additive Carbonat**

15) regulations

**Identification** The product is classified and labeled according to EC guidelines

by EC directives: (GefStoffVO)

Classification letter: none Danger symbol: none

Danger identification: none R sentences: R22, R36

S sentences: S-2 Keep out of reach of children.

Remarks: This classification was carried out according to the calculation method

for preparations guideline (88/379/EEC).

Technical instructions air: This TA isn't a subject.

Water endangering class 1 (water endangering)

(WGK): (Classification in accordance with VwVwS, appendix 4)

16). other details

**Use:** Photographic developer

#### **Further information:**

These details refer merely on this above product and not needs to be valid, if this is occurred with another product or in an arbitrary process.

The information corresponds to our today's knowledge, it is correct and complete and with best conscience, given without a guarantee, though. It shall describe our product with a view to safety requirements and has therefore not the meaning to assure of certain qualities. The responsibility of the use of this product remains on the user whether the information is complete and suitable for his special use.

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