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

EC safetydata sheet 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

a <i>i</i>					
Chemical name/		EASY LITH part A	Lith developer		
Trade name: Application/use:		Photographic deve	alonor		
Company name:		Wolfgang Moerscl		ShR Am Heidebe	ara 48
company name.		D 50354 Hürth			Jig 40
Telephone:		++49 22 33 40 18	85		
2) composition/details	on compone				
, 1	•				
This product is a prepar	ation accordir	ng to the law for che	emicals.		
Description:			oontoining inorg	onia and argonia	aubatanaaa
		Aqueous solution	containing morg	anic and organic	substances
Composition/informat	ion about the	e components:			
Name	Weight %		e EC number no	o. EC index no.	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	25-30	111-46-6	203-872-2		
Other information:		further principal in	gredient: Water		
3) Possible risks					
Definition of dangers:		Bad for health: Po swallowed. Dange	er of serious eye		zation by
Special danger notes man and environment		skin contact possible. 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 ca	n occur if these	substances are ta	aken in.
4) first aid pecautions					
General notes:		change contamina consult a doctor.	ated, wet clothing	g.	
After breathing in:		None of special pr	ecautions requir	red.	
After skin contact:		at skin contact wa			ap.
		Wash clothing bef			
After eye contact:		At eye contact ope		with water, then i	mmediately
		consult an eye spe		lion	
After swallowing:		Consult eye speci Rinse out mouth v			afterwards
AILEI SWAIIOWIIIY.			with water and ur	in a lot of water	andiwalus



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: for security reasons	Coordinate extinguishing precautions on the surrounding fire. None confessed.	
unsuitable extinguishing agents: Special endangerings of the substance or the product itself its waste products of combustion of		
arising gasses: Special protection equipment	sulfur dioxide None of special equipment required.	
for fire fighting: Additional notes:	Product does not burn.	
6) PRECAUTIONS at unintentional	release	
Person drawee Precautions:	Use personal protective clothing.	
	Don't let it drain into the sewage system/surface water/ground water.	
proceedings for cleaning/binding:	g: 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 explosion protection:	The product is not combustible.	
Requirements on storerooms and containers:	None of special requirements necessary. Keep container tightly closed.	
Together storage notes: More details on Storage conditions:	None of special precautions required. Recommended storage temperature: 5 to 25 C	
Store class:	LGK 12 (VCI strategy)	
8)outline demarcation and persona	I protection equipment	
Additional indications for arrangement See section 7; no requirements going beyond this.		
Components to be superwised in connection of the working place and limiting valu	111-46-6 diethylenglykol MAK 44 mg/m3 Jes 10 ml/m3	
Personal protection equipment: Breathing protection: Hand protection:	Sufficient ventilation, no additional protection necessary. Gloves. Required qualities: Liquid proof.	

WOERSCH www.moersch-photochemie.de Wolfgang Moersch Photochemie GbR

Developer Easy Lith Part A

Eye protection: Object protection: Protection-and	Safety goggles. personal protective clothing Do not eat, drink, smoke sneeze while working. Wash hands at interruptions
Hygiene measures:	and work end.

9) physical and chemical qualities

Form	Lieuid
Form: Color:	Liquid slightly yellow, clear.
Smell:	Odorless.
pH value:	5.5 (25 C)
Boiling-point/boiling area:	≥ 100 C
Melting point/glaze area:	≤ 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:	1.090 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:	No decomposition by coorect use.
Conditions	Contact with strong alkalies
to be avoided:	Ũ
Avoiding	Reaction with strong alkalies
Substances:	Ŭ
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.



Developer Easy Lith Part A

Irritation-/ etching effect: Skin: Eyes:	The details refer to the technical active agents (Hydroquinone, //10-15 % ig//) slightly irritating strongly irritating	
Sensitization: Sensitization of skin is possible. Effect after repeated or longer continuous expose: Possibility of irreversible damage if swallowed.		
Cancer producing, ancestral estat as well as propagation endangerir		
Other details: Experiences from the practice: General remarks:	No further data. No relevant data. 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 manager		
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 by EC directives:	The product is classified and labeled according to EC guidelines (GefStoffVO)	



Developer Easy Lith Part A

Classification letter: Danger identification: R sentences: S sentences: Remarks:	Xn danger symbol: Bad for health 40, 41, 43 26, 36/37/39 This classification was carried out according to the calculation method for preparations guideline (88/379/EEC).
Special identification-	
regulations for definite	
Preparations:	is alotted
National regulations:	
Occupation -	Occupation restrictions for being and staunching mothers
restrictions:	take into account (§ 5 MuSchuRiV).
Disruptive incident prescript	
Prescription about combusti	ble 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.



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:	
Application/use:	Photographic developer
Company name:	Wolfgang Moersch Photochemie, 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 chemical law. **Description:**

Aqueous solution containing inorganic and organic substances

Composition/informati	on about the	e components:			
Name	Weight %	CAS no.On	e 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 ingredier	nt: Water		
3). possible risks					
Name of the dangers:		Irritating: Irritates	the eyes and the skin.		
Special danger notes information		No dangers to be	No dangers to be mentioned particularly. Please, take the		
Man and environment:		of this safety data	sheet into account.		
4). FIRST AID PRECAU	ITIONS				
General notes:		change contamina	ated clothing.		
		Consult a doctor.			
After breathing in:		No of special measures required.			
			bles: obtain medical advice.		
After skin contact:		Wash skin immediately at touch with water and soap. Wash clothing in front of reuse.			
After eye contact:			pen eyelids then immediately was	ch with	
sufficient		Al eye contact, o	per eyends then infinediately was		
Samolon		water.			
		Consult a doctor.			
		Consult eye speci	alist at eye irritation.		
After swallowing:		Rinse out mouth a	and drink a lot of water.		
_		Don't start any vo	miting. Consult a doctor.		
Notes for the doctor:		-			
Symptoms:		No symptoms con	fessed till now.		

5). PRECAUTIONS at fire fighting

Suitable extinguishing agents:	Coordinate extinguishing measures on surroundings fire.
Security reasons due to	None confessed.

Store class:



Developer Easy Lith Part B

unsuitable extinguishing agents: Special endangerings due to the substance or the product itself its waste products of combustion of arising gasses: Special protection equipment the fire fighting: Additional notes:		
6). PRECAUTIONS at unintentional	release	
Person drawee	Use personal protective clothing.	
Precautions: Environment protective measures: water	Don't let it get into the sewage system/surface water/ground	
Proceedings on cleaning and binding: Use liquid binding compounds like sawdust, universal binding		
	agent	
Additional notes: waste	The taken material has to be treated according to section	
	management	
7). handling and storage		
Indications for safe contact:	Use only in well ventilated areas.	
Points on fire-and Explosion protection:	The product is not combustible.	
Requirements on storerooms	None of special requests necessary. Container, thick,	
and container:	keep locked.	
Together storage notes:	None of special measures required.	
More details to	Recommended storage temperature: 5 to 25 C	
Storage conditions:	ICK 12 (VCI strategy)	

8). outline demarcation and personal protection equipment

Additional indications for arrangen of technical plants: Components to be superwised in connection of the working place and limiting values Personal protection equipment:	nent See section 7; no measures going beyond this required.
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.

LGK 12 (VCI strategy)



Developer Easy Lith Part B

9). physical and chemical qualities

Form: Color: Smell: pH value: Boiling-point/boiling area: Melting point/glaze area: Flaming point: Imflammatory/ Catching light temperature: Self flammability: Fire promoting Qualities: Danger of explosion: Vapor pression: Density: Pouring density: Solubility in water: in other solvents: Distribution coefficient n-Oktanol/water: Dynamic viscosity: Solving average salary:	Liquid Yellow, clear. Odorless. 12.3 (25 C) ≥ 100 C ≤ 0 C Not applicable. Not inflammable. Not self flammable. Not combustible. Not explosion dangered. Remark: Corresponds to the vapor pression of water. 1.500 g/cm3 (20 C) Not applicable. Mixable. There are no data. There are no data. There are no data.
Solid salary:	59%
other details:	There are not further data.
10). stability and reactivity	
Stability: Conditions to be avoided	No decomposition by correct use. Contact with strong acids.
Substances to be avoided:	Reaction with strong acids.
Dangerous Educts:	None confessed.
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:	There are no data.
Skin: Eves:	Slight Irritation effect. Irritating.
Sensitization: Effect after repeated or longe	There are no data.



Developer Easy Lith Part B

Cancer producing, ancestral estate changing as well as propagation endangering:		
propagation ondangoring.	None confessed.	
Other details: Experiences from the practice: General remarks: guideline	No further data. There are no data. There are no toxicological data. This classification is prepared according to the calculation proceedings of the preparation (88/379/EEC).	
12). details on ecology		
General notes:	There are no data. The product was not checked. Remarks: Does ,by correct use ,not get into the sewage system.	
13). indications for waste manager	nent	
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: Packing:	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 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:		
Classification letter: Danger name: R sentences: S sentences: Remarks: the classification is carried according to the calculation method f	Xi danger symbol: irritating 36/38 26 out or 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 - restrictions:	No restrictions.	
Disruptive incident prescription (StörfallV): the (Disruptive incident) isn't subject.		
Prescription about combustible	Is no subject for this prescription.	

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	Liquids:	
(WGK) (Classification in accordance with VwVwS, appendix 4)	Technical instructions air:	This (TA) isn't subject.
	Water endangering class:	1 (weakly water endangering)
Other regulations, restrictions and	(WGK)	(Classification in accordance with VwVwS, appendix 4)
	Other regulations, restrictions and	
Ban prescriptions: is dropped	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.

ISSUED BY:	Wolfgang Moersch – Moersch-Photochemie ++49 2233 943137 info@moersch-photochemie.com
REVISION DATE:	2009-07-07
PRINTING DATE	2009-07-07

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

EC safetydata sheet According to 91/155/EWG

Developer SE5 Lith Part D

1). substance-/ preparation and company name

Chemical name/ Trade name:	SE5 Lith part D Lith developer
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	

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
 Possible risks Name of dangers: this 	No identification required. Please, take the information of safety data sheet this one into account.
Special danger notes on	No dangers to be mentioned particularly.

Man and environment:

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 figh	nting	
Suitable extinguishing agents on surroundings fire.	Coordinate extinguishing measures	
From security reasons	None confessed.	
unsuitable extinguishing age		
	Possible releases by fire: Bromine vapors	
the substance or the product its waste products of combus		
arising gasses:		
Special protection equipment material burns	Compressed air breathing apparatuses allowed if the	
the fire fighting: Additional notes:	use. None.	
Additional notes.	None.	
6). PRECAUTIONS at unintentional release		
Person drawee	Use personal protective clothing.	
Precautions:		
	ures: Do not let it get into the sewage system/surface	
water/ground water	hindian the linuid hindian compounds like countrat	
universal binding agent	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:		
	None of special requests necessary. Container, thick,	
and container:	keep locked.	
Together storage notes: More details on	None of special measures required. Recommended storage temperature: 5 to 25 C	
Storage conditions:	Recommended storage temperature: 5 to 25 C	
Store class:	LGK 12 (VCI strategy)	
8). outline demarcation and p	ersonal protection equipment	
Additional indications for the	See section 7: no measures going beyond this	
Lay-out of technical plants: Components to be	See section 7; no measures going beyond this required.	

Components to besuperwised in connection withthe working place andlimiting 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: Color: Smell: pH value:	Liquid Yellow, clear. Not characteristic. 10.6 (22 C)
Boiling-point/boiling area:	≥ 100 C
Melting point/glaze area:	≤ 0 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:	

11). details on the toxicology

Toxicological exams: Acute Toxicity:	None confessed.
Irritation-/ etching effe	ct:
Skin:	Slight Irritation effect.
Eyes:	Irritation effect.
Sensitization:	There are no data.
Effects after repeated	or longer, continuous expose:
	None confessed.
Cancer producing, and	cestral estate changing as well as
propagation endanger	
	None confessed.
Other details:	No further data.
Experiences from the pract	
General remarks:	
-	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
the	disposed with domestic garbage. Do not let it reach into
	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

No dangerous goods according to the transport

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

	Is alotted. Is alotted. Is alotted. Is alotted. Is alotted. Is alotted. the classification w	No identification required. vas carried out according to the preparation guideline (88/379/EEC)
Special identification- regulations for definite Preparations: National regulations:	Is alotted.	
Occupation - restrictions:	No-one	
Disruptive incident pres	cription: the disru	otive incident isn't subject.
Prescription about com Liquids:	bustible	Is not subject to this prescription.
Technical instructions a	ir:	The (TA) isn't subject.
Water endangering clas		1 (water endangering weakly)
(WGK)	•	ccordance with VwVwS, appendix 4)
Other regulations, restriction		
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.

ISSUED BY:	Wolfgang Moersch – Moersch-Photochemie ++49 2233 943137 <u>info@moersch-photochemie.com</u>
REVISION DATE:	28 Jun 2007
PRINTING DATE	02 May 1995



Developer SIENA Additive Carbonat

1) substance-/ preparation and company name

Chemical name/ Trade name:	Polychrome Additiv Carbonat
Application/use: Company name:	Photographic developer 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: for security reasons	Coordinate extinguishing precautions on the surrounding fire. None confessed.
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



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 explosion protection:	The product is not combustible.
Requirements on storerooms and containers:	None of special requirements necessary. Keep container tightly closed.
Together storage notes: More details on	None of special precautions required.
Storage conditions: Store class:	Recommended storage temperature: 5 to 25 C 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:	11.3 (20 C)
Boiling-point/boiling area:	≥ 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:	1.09 g/ml (20 C)
Pouring density:	Not applicable.



Developer SIENA Additive Carbonat

Solubility into water: in other solvents:	Mixable. No relevant data.
Distribution coefficient	No relevant data.
Dynamic viscosity:	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: Effect after repeated o Other details: Experiences from the practice: General remarks:	- irritating r longer continuous expose: Possibility of irreversible damage if swallowed. No further data. No relevant data. 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 managen	nent	
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



Developer SIENA Additive Carbonat

Identification by EC directives: Classification letter: Danger identification: R sentences:	The product is classified and labeled according to EC guidelines (GefStoffVO) none Danger symbol: none none 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: Water endangering class (WGK):	This TA isn't a subject. 1 (water endangering) (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.

ISSUED BY:	Wolfgang Moersch – Moersch-Photochemie		
	++49 2233 943137 info@moersch-photochemie.com		

REVISION DATE:	08 SEPT 2008
PRINTING DATE	11 NOV 1998



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			
5) FRECAUTIONS for the lighting			
Suitable extinguishing agents: for security reasons	Coordinate extinguishing precautions on the surrounding fire. None confessed.		
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



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	
Additional notes:	sawdust, universal binding agents). 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 explosion protection:	The product is not combustible.	
Requirements on storerooms and containers:	None of special requirements necessary. Keep container tightly closed.	
Together storage notes: More details on	None of special precautions required.	
Storage conditions: Store class:	Recommended storage temperature: 5 to 25 C 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:	ammonia
pH value:	7.5 (20 C)
Boiling-point/boiling area:	≥ 100 C
Melting point/glaze area:	≤ 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.



Solubility into water: in other solvents:	Mixable. No relevant data.
Distribution coefficient	No relevant data.
Dynamic viscosity:	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: Effect after repeated o Other details: Experiences from the practice: General remarks:	slightly irritating irritating r longer continuous expose: Possibility of irreversible damage if swallowed. No further data. No relevant data. There are no toxicological data. The classification was carried out according the calculation proceedings of preparation guideline (88/379/EEC).		
12) details on ecology			
General notes:	There are no data. The product was not tested. Remarks: Does not reach by correct use into the waste water.		
13) indications for waste manager	nent		
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



Identification by EC directives: Classification letter: Danger identification: R sentences:	The product is classified and labeled according to EC guidelines (GefStoffVO) none Danger symbol: none harmful R22, R36	
S sentences:	S-2 Keep out of reach of children.	
Remarks:	This classification was ca for preparations guideline	arried out according to the calculation method e (88/379/EEC).
Technical instructions air: Water endangering class (WGK):	This TA isn't a subject. 1 (water endangering) (Classification in accorda	nce 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.

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REVISION DATE:	08 SEPT 2008
PRINTING DATE	11 NOV 1998

1)	substance-/	preparation	and com	pany name
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Chemical name/ Trade name:	SIENA
Application/use:	Photographic developer
Company name:	Wolfgang Moersch Photochemie, Am Heideberg 48
	D 50354 Hürth, Germany
Telephone:	++49 22 33 943137

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 ACID NA5	>0,5%	67-43-6	200-652-8	Xi R-36
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.
Aller Skill Collact.	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:	Coordinate extinguishing precautions on the surrounding fire.
for security reasons	None confessed.
unsuitable extinguishing agents:	
Special endangerings of	None confessed

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



Special protection equipment for fire fighting:	None of special equipment required.
Additional notes:	Product does not burn.
6) PRECAUTIONS at unintentional	release
Person drawee Precautions:	Use personal protective clothing.
	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 explosion protection:	The product is not combustible.
Requirements on storerooms and containers:	None of special requirements necessary. Keep container tightly closed.
Together storage notes: More details on	None of special precautions required.
Storage conditions: Store class:	Recommended storage temperature: 5 to 25 C 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:	≥ 100 C
Melting point/glaze area:	≤ 0 C
Flaming point:	Not applicable.
Imflammatory/	Not inflammable.
Catching light temperature:	
Self flammability:	Not self-flammable

Fire promoting qualities:	Not combustible.
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:	No relevant data.
Distribution coefficient	No relevant data.
Dynamic viscosity:	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 long	
	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.
General notes.	Remarks: Does not reach by correct use
	into the waste water.
13) indications for waste manager	nent
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 by EC directives: Classification letter: Danger identification: R sentences:	The product is classified and labeled according to EC guidelines (GefStoffVO) none Danger symbol: none harmful -
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: Water endangering class (WGK):	This TA isn't a subject. 1 (water endangering) (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.

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REVISION DATE:	03 FEB 2002
PRINTING DATE	11 NOV 1998