

## Developer Easy Lith Part A

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

#### DEVELOPER SE 5 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, Am Heideberg 48  
D 50354 Hürth  
**Telephone:** ++49 22 33 943137

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##### 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 EC number no.	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		
<b>Other information:</b>		further principal ingredient: Water			

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##### 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.

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##### 4) first aid precautions

##### 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.

##### After swallowing:

Consult eye specialist at eye irritation.

Rinse out mouth with water and drink a lot of water afterwards

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

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

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### 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** None of special equipment required.  
**for fire fighting:**  
**Additional notes:** Product does not burn.

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### 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.

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### 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:** None of special precautions required.  
**More details on**  
**Storage conditions:** Recommended storage temperature: 5 to 25 C  
**Store class:** LGK 12 (VCI strategy)

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### 8) outline demarcation and personal protection equipment

**Additional indications for arrangement of technical plants:** See section 7; no requirements going beyond this.  
**Components to be superwised in connection of the working place and limiting values** 111-46-6 diethylenglykol MAK 44 mg/m<sup>3</sup>  
10 ml/m<sup>3</sup>  
**Personal protection equipment:**  
**Breathing protection:** Sufficient ventilation, no additional protection necessary.  
**Hand protection:** Gloves. Required qualities: Liquid proof.

## EC safetydata sheet

According to 91/155/EWG



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

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### 9) physical and chemical qualities

<b>Form:</b>	Liquid
<b>Color:</b>	slightly yellow, clear.
<b>Smell:</b>	Odorless.
<b>pH value:</b>	5.5 (25 C)
<b>Boiling-point/boiling area:</b>	≥ 100 C
<b>Melting point/glaze area:</b>	≤ 0 C
<b>Flaming point:</b>	Not applicable.
<b>Imflammatory/</b>	Not inflammable.
<b>Catching light temperature:</b>	
<b>Self flammability:</b>	Not self-flammable
<b>Fire promoting</b>	Not combustible.
<b>qualities:</b>	
<b>Danger of explosion:</b>	No danger of explosion.
<b>Vapor pression:</b>	Remark: Corresponds to the vapor pression of water.
<b>Density:</b>	1.090 g/cm <sup>3</sup> (20 C)
<b>Pouring density:</b>	Not applicable.
<b>Solubility into water:</b>	Mixable.
<b>in other solvents:</b>	No relevant data.
<b>Distribution coefficient</b>	No relevant data.
<b>n-Oktanol/water:</b>	
<b>Dynamic viscosity:</b>	no relevant data.
<b>Solving average salary:</b>	21% water, 26% organic solvents (diethylenglykol)
<b>Solid salary:</b>	16%
<b>other details:</b>	There are not further data.

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### 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

#### Toxicological tests:

<b>Acute Toxicity:</b>	Details refer to the main component hydroquinone LD 50, oral rat 320 mg/kg
<b>Specific symptoms in this</b>	No relevant data.
<b>Animal experiment:</b>	

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<b>Irritation-/ etching effect:</b>	The details refer to the technical active agents (Hydroquinone, 10-15 % )
<b>Skin:</b>	slightly irritating
<b>Eyes:</b>	strongly irritating
<b>Sensitization:</b>	Sensitization of skin is possible.
<b>Effect after repeated or longer continuous expose:</b>	Possibility of irreversible damage if swallowed.
<b>Cancer producing, ancestral estate changing as well as propagation endangering:</b>	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).
<b>Other details:</b>	No further data.
<b>Experiences from the practice:</b>	No relevant data.
<b>General remarks:</b>	There are no toxicological data. The classification was carried out according the calculation proceedings of preparation guideline ( 88/379/EEC).

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### 12) details on ecology

<b>General notes:</b>	There are no data. The product was not tested. Remarks: Does not reach by correct use into the waste water.
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### 13) indications for waste management

<b>Product:</b>	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.
<b>European waste catalog:</b>	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
<b>Packing:</b>	Not contaminated packings can be recycled .  Empty packing completely, wash well (Cleaning agent: water), can be recycled afterwards

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### 14) details on transport

<b>Transport/further details:</b>	No dangerous goods according to transport regulations (ADR/RID IMDG code, ICAO-TI/IATA-DGR)
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### 15) regulations

<b>Identification by EC directives:</b>	The product is classified and labeled according to EC guidelines ( GefStoffVO)
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## 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 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 inorganic and organic substances

##### Composition/information about the components:

Name symbol;	Weight %	CAS no.	One EC number no.	EC index no.	Danger
notes					Danger
Potassium hydroxide	0,5-2	1310-58-3	215-181-3	019-002-00-8 R: 35	C;
Potassium carbonate	15-20	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.

**After breathing in:** No of special measures required.  
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.

**After swallowing:** Rinse out mouth and drink a lot of water.  
Don't start any vomiting. Consult a doctor.

**Notes for the doctor:**  
**Symptoms:** No symptoms confessed till now.

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### 5). PRECAUTIONS at fire fighting

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

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**unsuitable extinguishing agents:**  
**Special endangerings due to the substance or the product itself its waste products of combustion or arising gasses:** Released at fire: Carbon monoxide, carbon dioxide Sulfur dioxide.  
**Special protection equipment the fire fighting:** None of special measures required.  
**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

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### 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 and container:** None of special requests necessary. Container, thick, keep locked.  
**Together storage notes:** None of special measures required.  
**More details to Storage conditions:** Recommended storage temperature: 5 to 25 C  
**Store class:** LGK 12 (VCI strategy)

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

**Additional indications for arrangement of technical plants:** See section 7; no measures going beyond this required.

**Components to be supervised in connection of the working place and limiting values**

**Personal protection equipment:**  
**Breathing protection:** Sufficient ventilation.

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<b>Hand protection:</b>	Gloves. Required qualities: Liquid proof, thick.
<b>Eye protection:</b>	Safety goggles (basket glasses.)
<b>Object protection:</b>	Personal protective clothing.
<b>Protection-and</b>	Do not eat, drink or smoke at work.
<b>Hygiene measures:</b>	Preventive skin protection. Wash hands before breaks and at work end. Use fatty skin cremes after cleaning.

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### 9). physical and chemical qualities

<b>Form:</b>	Liquid
<b>Color:</b>	greenish yellow, clear.
<b>Smell:</b>	Odorless.
<b>pH value:</b>	12.3 (25 C)
<b>Boiling-point/boiling area:</b>	≥ 100 C
<b>Melting point/glaze area:</b>	≤ 0 C
<b>Flaming point:</b>	Not applicable.
<b>Imflammatory/</b>	Not inflammable.
<b>Catching light temperature:</b>	
<b>Self flammability:</b>	Not self flammable.
<b>Fire promoting</b>	Not combustible.
<b>Qualities:</b>	
<b>Danger of explosion:</b>	Not explosion dangered.
<b>Vapor pression:</b>	Remark: Corresponds to the vapor pression of water.
<b>Density:</b>	1.500 g/cm <sup>3</sup> (20 C)
<b>Pouring density:</b>	Not applicable.
<b>Solubility in water:</b>	Mixable.
<b>in other solvents:</b>	There are no data.
<b>Distribution coefficient</b>	There are no data.
<b>n-Oktanol/water:</b>	
<b>Dynamic viscosity:</b>	There are no data.
<b>Solving average salary:</b>	41% water
<b>Solid salary:</b>	59%
<b>other details:</b>	There are not further data.

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### 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

<b>Toxikological exams:</b>	
<b>Acute Toxicity:</b>	Details refer to the main components Potassium carbonate LD 50 oral rat 1870 mg/kg

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<b>Specific symptoms in this Animal experiment:</b>	There are no data.
<b>Irritation-/ etching effect:</b>	
<b>Skin:</b>	Irritating.
<b>Eyes:</b>	Irritating.
<b>Sensitization:</b>	There are no data.
<b>Effect after repeated or longer continuous expose:</b>	None confessed.
<b>Cancer producing, ancestral estate changing as well as propagation endangering:</b>	None confessed.
<b>Other details:</b>	No further data.
<b>Experiences from the practice:</b>	There are no data.
<b>General remarks:</b>	There are no toxicological data. This classification is prepared according to the calculation proceedings of the preparation guideline
	( 88/379/EEC).

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### 12). details on ecology

<b>General notes:</b>	There are no data. The product was not checked. Remarks: Does ,by correct use ,not get into the sewage system.
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### 13). indications for waste management

<b>Product:</b>	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
<b>European waste catalog:</b>	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
<b>Packing:</b>	Not contaminated packages can be recycled Empty completely, wash contaminated packages well (Cleaning agent: water ), can be recycled afterwards.

### 14). details on transport

- a) Land transport ADR/RID (cross-border) ADR/GGVS: 8/41 b UN/ID 1814
- b) Maritime transport IMDG: 8/II UN/ID 1814
- c) Air transport ICAO-TI and IATA-DGR:: 8/II UN/ID 1814

**Dangerous good: Corrosive Label 8**

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### 15). Regulations

#### Identification

The product is/classified and labeled according to EC guidelines( GefStoffVO) labeled.

#### by EC directives:

**Classification letter:**

**C**

danger symbol: **C**

**Danger name:**

**corrosive**

**R sentences:**

36/38

**S sentences:**

26 remarks: the classification is carried out according to the calculation method for preparations guideline ( 88/379/EEC).

#### Special identification-regulations for definite

**Preparations:**

is allotted

**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: (WGK)**

1 (weakly water endangering)  
(Classification in accordance with VwVwS, appendix 4)

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### 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.