

## ECO FILM DEVELOPER

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

**Chemical name/ Trade name:** ECO FILM DEVELOPER

**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**  
**CAUSES SKIN AND 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
1,4 DIHYDROXYBENZENE POTASSIUM SALT	35-40	21799-87-1	244-584-7	not classified
POTASSIUM CARBONATE	10	584-08-7	209-529-3	Xn R-22, 36
DIETHYLENE GLYCOL	>4	111-46-6	203-872-2	Xn R-22
1-PHENYL-4-METHYL-4-HYDROXYMETHYL-3 PYRAZOLIDONE	>1	13047-13-7	235-920-3	Xn R-48/22
DIETHYLENTRIAMINE PENTAACETIC ACID NA5	>1	67-43-6	200-652-8	Xi R-36
SODIUM SULPHITE	10-15	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 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  
Consult eye specialist at eye irritation.  
**After swallowing:** Rinse out mouth with water and drink a lot of water afterwards

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

## ECO FILM DEVELOPER

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### 5) PRECAUTIONS for fire fighting

<b>Suitable extinguishing agents for security reasons</b>	Coordinate extinguishing precautions on the surrounding fire. None confessed.
<b>unsuitable extinguishing agents:</b>	
<b>Special endangerings of the substance or the product itself</b>	released by fire can be : carbon monoxide, carbon dioxide
<b>its waste products of combustion or arising gasses:</b>	sulfur dioxide
<b>Special protection equipment for fire fighting:</b>	None of special equipment required.
<b>Additional notes:</b>	Product does not burn.

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### 6) PRECAUTIONS at unintentional release

<b>Person drawee</b>	Use personal protective clothing.
<b>Precautions:</b>	
<b>Environment protective measures:</b>	<b>none</b>
<b>proceedings for cleaning/binding:</b>	liquid binding materials (e.g. sand, pebble sand sawdust, universal binding agents).
<b>Additional notes:</b>	Treat the taken material according to waste management section.

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### 7) handling and storage

<b>Indications for safe contact:</b>	At proper use none of special precautions required.
<b>Points on fire-and explosion protection:</b>	The product is not combustible.
<b>Requirements on storerooms and containers:</b>	None of special requirements necessary. Keep container tightly closed.
<b>Together storage notes:</b>	None of special precautions required.
<b>More details on</b>	
<b>Storage conditions:</b>	Recommended storage temperature: 10 to 35 C
<b>Store class:</b>	LGK 12 (VCI strategy)

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### 8) outline demarcation and personal protection equipment

- **Additional information:** The lists that were valid during the compilation were used as basis.
- **Personal protective 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.

## ECO FILM DEVELOPER

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### 9) physical and chemical qualities

<b>Form:</b>	Liquid
<b>Color:</b>	Colourless, clear.
<b>Smell:</b>	Odourless.
<b>pH value:</b>	Solution A 7.25, Solution B 13.20, Working solution 10.65 (20 C)
<b>Boiling-point/boiling area:</b>	≥ 100 C
<b>Melting point/glaze area:</b>	≤ 0 C
<b>Flaming point:</b>	Not applicable.
<b>Imflammator/</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>	1.150 g/ml (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>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>	No relevant data.
<b>Specific symptoms in this</b>	No relevant data.
<b>Animal experiment:</b>	

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

<b>Skin:</b>	slightly irritating
<b>Eyes:</b>	strongly irritating
<b>Sensitization:</b>	Sensitization of skin is possible.
<b>Effect after repeated</b>	
<b>or longer continuous expose:</b>	none

<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

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## ECO FILM DEVELOPER

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according to the calculation proceedings of preparation guideline  
( 88/379/EEC).

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### 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.

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### 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  
Not contaminated packings can be recycled .

**Packing:**

Empty packing completely, wash well  
(Cleaning agent: water), can be recycled afterwards

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### 14) transport information

**ADR CLASS:**

Not classified for transportation.

**ROAD TRANSPORT NOTES:**

Not classified for road transport

**RAIL TRANSPORT NOTES:**

Not classified for rail transport

**SEA TRANSPORT NOTES:**

Not classified for sea transport

**AIR TRANSPORT NOTES:**

Not classified for air transport

### 15) regulations

**Identification**

**by EC directives:**

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

**Classification letter:**

**Danger identification:**

**harmful if swallowed**

**R sentences:**

**R-36 Irritating to eyes.**

**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**

**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**

2 (water endangering)

**(WGK):**

(Classification in accordance with VwVwS, appendix 4)

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## ECO FILM DEVELOPER

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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.

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