

## Developer SE 2 Warm

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

**Chemical name/** SE2 WARM  
**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) Hazards identification

**Xn harmful**  
**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

**Composition/information about the components:**

Name	Weight %	CAS no.	One EC number no.	Danger symbol; Danger notes
hydroquinone	2-6	123-31-9	204-617-8	Xn, N; R 22-40-41-43 50
diethylene glycol	0,5	111-46-6	203-872-2	
potassium carbonate	10-15	584-08-7	209-529-3	Xn R-22, 36
potassium bromide	0-1 6/37/38	7758-02-3	231-830-3	Xn R-20/22,
1-phenyl-4-methyl- 4-hydroxymethyl-3-pyrazolidone	0-1	13047-13-7	235-920-3	Xn R-48/22
diethylentriamine pentaacetic acid na5	0-1	67-43-6	200-652-8	Xi R-36
sodium sulphite	15-20	not classified		

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

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### 4) first aid precautions

**General notes:** change contaminated, wet clothing.  
consult a doctor.

**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

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### 5) PRECAUTIONS for fire fighting

<b>Suitable extinguishing agents:</b>	Coordinate extinguishing precautions on the surrounding fire.
<b>for security reasons</b>	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>	Don't let it drain into the sewage system/surface water/ground water.
<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: 5 to 25 C
<b>Store class:</b>	LGK 12 (VCI strategy)

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### 8) outline demarcation and personal protection equipment

- **Additional information about design of technical systems: No further data; see item 7.**
- **Components with limit values that require monitoring at the workplace:**

#### 123-31-9 1,4-dihydroxybenzene (hydroquinone)

MEL

OES

Long-term value: 0.5 mg/m<sup>3</sup>

Short-term value: 4 mg/m<sup>3</sup>

Long-term value: 2 mg/m<sup>3</sup>

CHAN, ILV

- **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

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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:**

Protective gloves.

The protective gloves to be used must comply with the specifications of the EC directive 89/686/EEC and the resultant standard EN 374.

This recommendation applies only to the product stated in the Safety Data Sheet and supplied by us as well as to the purpose specified by us.

Only use chemical-protective gloves with CE-labelling of category III.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

Nitrile rubber, NBR

Butyl rubber, BR

Fluorocarbon rubber (Viton)

Chloroprene rubber, CR

Recommended thickness of the material:  $\geq 0.5$  mm

· **Penetration time of glove material**

Value for permeation: Level  $\geq 6$  (480 min)

The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

· **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**

Synthetic gloves

Value for permeation: Level:

$\geq 3$  (60 min)

· **Not suitable are gloves made of the following materials:** Natural rubber, NR

· **Eye protection:** Tightly sealed safety glasses.

### 9) physical and chemical qualities

<b>Form:</b>	Liquid
<b>Color:</b>	colourless, clear.
<b>Smell:</b>	Odorless.
<b>pH value:</b>	11.20 (20 C)
<b>Boiling-point/boiling area:</b>	$\geq 100$ C
<b>Melting point/glaze area:</b>	$\leq 0$ 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>	1.210 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.

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**other details:** 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:**

**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.

**Irritation-/ etching effect:**

**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 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

**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

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**Packing:** 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

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

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### 15) regulations

**Identification by EC directives:** The product is classified and labeled according to EC guidelines  
( GefStoffVO)

**Classification letter:**  
**Danger identification:**  
**R sentences:**

Xn danger symbol: 

**harmful**  
**R-36 Irritating to eyes.**  
**R-40 Limited evidence of a carcinogenic effect.**  
**R-43 May cause sensitisation by skin contact.**  
**R-68 Possible risk of irreversible effects.**

**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-36/37 Wear suitable protective clothing and gloves. 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.  
2 (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.

**ISSUED BY:**

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



## **Developer SE 2 Warm**

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### **R-PHRASES (FULL TEXT)**

Not classified. R-22 Harmful if swallowed. R-36 Irritating to eyes. R-40 Limited evidence of a carcinogenic effect.. R-36/38 Irritating to eyes and skin. R-48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.