1) substance-/ preparation and company name

Chemical name/ Trade name:	SE20c CATECHOL
Application/use: Company name:	Photographic developer Wolfgang Moersch Photochemie, Am Heideberg 48 D 50354 Hürth, Germany
Telephone:	++49 22 33 943137

2) 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	4-8%	21799-87-1	244-584-7	not classified
1,2-DIHYDROXYBENZENE (Catechol)	1-5%	120-80-9	204-427-5	Xn R21/22 36/38
1,4-DIHYDROXYBENZENE	1-5%	123-31-9	204-617-8	Xn R-22, 40, 41, 43, 50,
(Hydrochinone)				68 Carc3 Mut3
POTASSIUM CARBONATE	9-13%	584-08-7	209-529-3	Xn R-22, 36
DIETHYLENE GLYCOL	>1%	111-46-6	203-872-2	Xn R-22
POTASSIUM BROMIDE	>1%	7758-02-3	231-830-3	Xn R-20/22, 36/37/38
BENZOTRIAZOLE	>1%	95-14-7	202-394-1	Xn R-22, 36
1-PHENYL-4-METHYL-4- HYDROXYMETHYL-3 PYRAZOLIDONE	1-3%	13047-13-7	235-920-3	Xn R-48/22
DIETHYLENTRIAMINE PENTAACETIC ACID NA5	1-5%	67-43-6	200-652-8	Xi R-36
SODIUM SULPHITE	9-15%	7757-83-7	231-821-4	not classified
TRIETHANOLAMINE	5-10%	102-71-6	203-049-8	not classified

Other information:	further principal ingredient: 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.
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

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

### 5) PRECAUTIONS for fire fighting

Suitable extinguishing agents: for security reasons unsuitable extinguishing agents:	Coordinate extinguishing precautions on the surrounding fire. None confessed.	
Special endangerings of the substance or the product itself	released by fire can be : carbon monoxide, carbon dioxide	
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.	

### 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: 10 to 25 C LGK 12 (VCI strategy)

### 8) outline demarcation and personal protection equipment

Additional indications for arrangen of technical plants: Personal protection equipment:	<b>nent</b> See section 7; no requirements going beyond this.
Breathing protection:	Sufficient ventilation, no additional protection necessary.
Hand protection:	Gloves. Required qualities: Liquid proof.

### 9) physical and chemical qualities

Form:	Liquid
Color:	Colourless, clear.
Smell:	Odourless.
pH value:	<b>11.05</b> (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:	1.150 g/ml (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.
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

Toxicological tests:	Catechol
Animal experiment:	LD50 (oral rat): 260mg/kg LD50 (skin rabbit): 800mg/kg
Irritation-/ etching effect:	The details refer to the technical active agents
Skin:	slightly irritating
Eyes:	strongly irritating
Sensitization:	Sensitization of skin is possible.
Effect after repeated or lon	ger 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 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.

liquids:

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# **Developer SE 20C Catechol**

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: Packing:	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 . Empty packing completely, wash well (Cleaning agent: water), can be recycled afterwards
14) transport information	
ADR CLASS: ROAD TRANSPORT NOTES: RAIL TRANSPORT NOTES: SEA TRANSPORT NOTES: AIR TRANSPORT NOTES:	Not classified for transportation. Not classified for road transport Not classified for rail transport Not classified for sea transport 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: R sentences:	Xi danger symbol: Bad for health 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).
Special identification- regulations for definite Preparations: National regulations: Occupation - restrictions: Disruptive incident prescription Prescription about combustit	

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 allotted

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

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

R-22 Harmful if swallowed. R-36/38 Irritating to eyes and skin. R-40 Limited evidence of a carcinogenic effect.R-48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.