1) substance-/ preparation and company name

Chemical name/ Trade name:	SE4 NEUTRAL
Application/use: Company name:	Photographic developer Wolfgang Moersch Photochemie, Am Heideberg 48 D 50354 Hürth, Germany
Telephone:	++49 22 33 943137

2) Hazards identification

contains hydroquinon 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

Name	Content	CAS	EINECS	CLASSIFICATION
1,4 DIHYDROXYBENZENE POTASSIUM SALT	5-10	21799-87-1	244-584-7	not classified
1,2-DIHYDROXYBENZENE (Hydrochinon)	1-5	123-31-9	204-617-8	Xn R-22, 40, 41, 43, 50, 68 Carc3 Mut3
POTASSIUM CARBONATE	8-12	584-08-7	209-529-3	Xn R-22, 36
DIETHYLENE GLYCOL		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
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	10-15	7757-83-7	231-821-4	not classified

Other information:	further principal ingredient: Water
4) first aid pecautions	
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, 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	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.	

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:	Iiquid 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:	Recommended storage temperature: 10 to 25 C
Store class:	LGK 12 (VCI strategy)

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/m³
Short-term value: 4 mg/m³
Long-term value: 2 mg/m³
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

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: ≥ 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.

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

Synthetic gloves

Value for permeation: Level:

≥ 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

Form: Color: Smell: pH value: Boiling-point/boiling area: Melting point/glaze area: Flaming point: Imflammatory/ Catching light temperature: Self flammability: Fire promoting	Liquid C olourless or slightly yellow, clear. Odourless. 10.85 (20 C) $\geq 100 \text{ C}$ $\leq 0 \text{ C}$ Not applicable. Not inflammable. Not self-flammable Not combustible.
qualities: Danger of explosion: Vapor pression: Density: Pouring density: Solubility into water: in other solvents: Distribution coefficient n-Oktanol/water: Dynamic viscosity:	No danger of explosion. Remark: Corresponds to the vapor pression of water. 1.150 g/ml (20 C) Not applicable. Mixable. No relevant data. No relevant data. no relevant data.



other details:	There are not further data.
10) stability and reactivity	
Thermal decomposition / conditior	is to be avoided: No decomposition if used according to specifications.
Dangerous reactions: No dangerou	s reactions known
Dangerous products of decompos	ition: No dangerous decomposition products known
11) details on toxicology	
Toxicological tests: Acute Toxicity: Specific symptoms in this Animal experiment:	Details refer to the main component hydroquinone LD 50, oral rat 320 mg/kg No relevant data.
Irritation-/ etching effect:	The details refer to the technical active agents
Skin: Eyes: Sensitization: Effect after repeated or longe	
Cancer producing, ancestral estate as well as propagation endangerin	Possibility of irreversible damage if swallowed. a changing g: 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: Experiences from the practice: General remarks:	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 managen 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 09 01 00: Waste from the 09 01 01: Developer and a Not contaminated packing Empty packing completely (Cleaning agent: water), c	photographic industry activators on water base as can be recycled .
14) transport information		
ADR CLASS: ROAD TRANSPORT NOTES: RAIL TRANSPORT NOTES: SEA TRANSPORT NOTES: AIR TRANSPORT NOTES:	Not classified for transportat Not classified for road transp Not classified for rail transpo Not classified for sea transpo Not classified for air transpo	port ort ort
15) regulations		
Identification by EC directives:	The product is classified a (GefStoffVO)	and labeled according to EC guidelines
Classification letter: Danger identification: R sentences: S sentences:	Xn harmful R-36 Irritating to eyes. R-40 Limited evidence o R-43 May cause sensitis R-68 Possible risk of irre S-2 Keep out of reach of S-26 In case of contact of water and seek media	ation by skin contact. eversible effects. f children. with eyes, rinse immediately with plenty
	S-36/37 Wear suitable p	rotective clothing and gloves. S-46 If I advice immediately and show this
Remarks:	This classification was car for preparations guideline	rried out according to the calculation method (88/379/EEC).
Technical instructions air: Water endangering class (WGK):	This TA isn't a subject. 2 (water endangering) (Classification in accordar	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.

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
REVISION DATE: PRINTING DATE	20 DEZ 2006 20 DEZ 2006

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.