

EC safetydata sheet

According to 91/155/EWG

Developer SE5 LITH A

EC SAFETY DATA SHEETS ACCORDING TO 91/155/EWG

DEVELOPER SE 5 LITH PART A

1) substance-/ preparation and company name

Chemical name/ Lith developer
Trade name:
Application/use: Photographic developer
Company name: Wolfgang Moersch Photochemie, Am Heideberg 48
D 50354 Hürth
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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		
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.

Special danger notes for with

man and environment:

carcinogenic

sufficient

which

concern.

The preparation contains hydroquinone, a substance classified category 3 producing cancer and changing genetic ancestral

(Category 3: Substances, which because of possible

effect on the man give reasons for concern upon which

information for a satisfying judgment is given or substances

because of changing ancestral estate give reason for a

These dangers can occur if these substances are taken in.

4) first aid precautions

General notes:

change contaminated, wet clothing.
consult a doctor.

EC safetydata sheet

According to 91/155/EWG

Developer SE5 Lith Part A

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

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

Symptoms: No symptoms confessed till now.

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.

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.

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)

EC safetydata sheet

According to 91/155/EWG

Developer SE5 Lith Part A

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 supervised in connection of the working place and limiting values	111-46-6 diethylenglykol MAK 44 10 ml/m ³

Personal protection equipment:

Breathing protection:	Sufficient ventilation, no additional protection necessary.
Hand protection:	Gloves. Required qualities: Liquid proof.
Eye protection:	Safety goggles.
Object protection:	personal protective clothing
Protection-and	Do not eat, drink, smoke sneeze while working. Wash hands at interruptions
Hygiene measures:	and work end.

9) physical and chemical qualities

Form:	Liquid
Color:	slightly yellow, clear.
Smell:	Odorless.
pH value:	5.5 (25 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 qualities:	Not combustible.
Danger of explosion:	No danger of explosion.
Vapor pression:	Remark: Corresponds to the vapor pression of water.
Density:	1.090 g/cm ³ (20 C)
Pouring density:	Not applicable.
Solubility into water:	Mixable.
in other solvents:	No relevant data.
Distribution coefficient	No relevant data.
n-Oktanöl/water:	
Dynamic viscosity:	no relevant data.
Solving average salary:	21% water, 26% organic solvents (diethylenglykol)
Solid salary:	16%
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

EC safetydata sheet
According to 91/155/EWG

Developer SE5 Lith Part A

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:

The details refer to the technical active agents (Hydroquinone, 10-15 %)

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).

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 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

Developer SE5 Lith Part A

14) details on transport

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

15) regulations

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

Classification letter:	Xn	danger symbol:
Danger identification:	harmful	
R sentences:	40, 41, 43	
S sentences:	26, 36/37/39	
Remarks:	This classification was carried out according to the calculation for preparations guideline (method 88/379/EEC).	

National regulations:

Occupation - restrictions: Occupation restrictions for being and staunching mothers take into account (§ 5 MuSchuRiV).

Disruptive incident prescription : **the Disruptive incident isn't subject.**

Prescription about combustible liquids: It is not subject to this prescription.

Technical instructions air: This TA isn't a subject.

Water endangering class (WGK): 2 (water endangering)
(Classification in accordance 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.

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