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acc. 91/155/EC

1 Identification of Preparation and Company

1.1 Product identification

Product name:Line-Entwickler neutral

Article-Nr. : 106315 Internal No.: 45323 -1465 -10

1.2 Identification of Manufacturer

Tetenal-Photowerk GmbH & Co Tetenal Ltd
Schützenwall 31 - 35 Centurion Way, Meridian Industrial Estate
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Informations are prepared and given by :
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Emergency telephone: +49 30 19240

2 Composition / Information on Ingredients

Hazardous Ingredients

CAS-Nr.	Symbol and R-phrases of the pure substance
0.5-2 % Sodium hydroxide 1310-73-2	C 35
5-10 % hydroquinone 123-31-9	Xn,N 22-40-41-43-50-68
10-25 % Potassium sulfite 10117-38-1	
1-5 % diethylene glycol 111-46-6	Xn 22

Description Black and white developer for photographic use

3 Hazard Identification

May cause sensitization by skin contact. Irritating to eyes and skin. Posibles efectos cancerigenos. Possible risks of irreversible effects.

4 First Aid Measures

4.1 General Information:

Remove contaminated soaked clothing/shoes immediately and dispose of safely.

4.2 Inhalation :

Remove the casualty into fresh air and keep him calm.

4.3 Skin contact :

In case of contact with skin wash off immediately with plenty of water

4.4 Eye contact :

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice

4.5 Ingestion :

Wash out mouth with water and drink plenty of water. Induce vomiting, seek medical advice.

4.6 Information for Physician:

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5 Fire-fighting Measures

5.1 Suitable Extinguishing Media: water spray jet foam dry powder

5.2 Extinguishing Media not to be used for safety reasons:

5.3 Special Hazards from the Product, its Combustionproducts or Gases:

In fires, hazardous combustion gases are formed: Sulphur dioxide (SO₂)

5.4 Special Protective Equipment Do not inhale explosion and/or combustion gases. Use breathing apparatus.

5.5 Additional Information

Fire residues and contaminated firefighting water must be disposed off in accordance with the local regulations.

Accidental Release Measures

6.1 Personal Precautions: Use breathing apparatus if exposed to vapours/dust/aerosol.

6.2 Environmental Precautions: Do not discharge into the drains/surface waters/groundwater.

6.3 Methodes for Cleaning: Send in suitable containers for recovery or disposal.

6.4 Additional Information

Take up mechanically

7 Handling and Storage

7.1 Safe Handling:

No special measures necessary if used correctly.

7.2 Fire and Explosion Precautions: No special measures necessary

7.3 Storage: Provide floor with bundling.

7.4 Special Storage Information: Do not store together with animal feedstuffs.

7.5 Additional Information: storage temperature: 5-30°C

7.6 Storage Class:

8 Exposure Control and Personal Protection

8.1 Engineering Measures:

Exhaust over mixing vessel

8.2 Components with Threshold Limit Values: Hydroquinone 2 mg/m³ in total dust (TRGS 900, MAK 2001) Sodium hydroxide 2 mg/m³ in total dust (MAK, 2001)

8.3 Additional Information: Do not eat or drink when working.

8.4 Personal Protection:

General Measures: Avoid contact with eyes and skin

Respiratory Protection: Short term: filter apparatus, filter K

Hand Protection : chemical resistant gloves made of nitrile rubber, thickness >0,38mm breakthrough time >480min or neoprene, thickness >0,65mm, >240min

Eye Protection : tightly fitting goggles

Skin Protection : Alkali-resistant protective clothing

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9 Physical and Chemical Properties

Appearance

State:Liquid Colour:colourless Odour:odourless

Changes of State:

Blp.:>100 °C Mlt.p.:< 0 °C

Flash point :n.a.

Flammability :

Ignition Temperature :n.a.

Autoflammability :

Oxidising Properties :n.a

Explosion Limits lower :n.a. Vol% upper:n.a. Vol%

Vapour Pressure (20°C) :k.A. mbar

Relative Density :1.28

Solubility in Water (20°C):soluble g/l

pH-Value of Product (20°C):11.0

Viscosity (20°C) :k.A.

Additional Information :-

10 Stability and Reactivity

Conditions to Avoid :Reactions with acids.

Materials to Avoid :Reactions with oxidising agents.

Hazardous Decomposition Products:Hazardous decomposition products:

Sulphur dioxide

Additional Information :

11 Toxicological Information

LD 50:k.A.

Sensitization through skin contact possible. The product has not been tested. The information is derived from the properties of the individual components.

12 Ecological Information

Do not discharge product unmonitored into the environment.

13 Disposal Considerations

Comment :Product must be disposed in accordance with the lawful and the local regulations.

Waste Catalogue No.(german):090101

Contaminated Packaging :

Cleaning of Packaging :

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14 Transport Information

ADR / GGVS :-

Remarks :-

IMDG-Code :-

Remarks :-

IATA / ICAO :-

Remarks :-

No dangerous good for transportation

15 Regulatory Information

Labelling according EC-Regulations

The product is classified and labelled in accordance with EC directives/the relevant national laws.

Symbol :Xn

R-Phrases:43-40-36/38-68

S-Phrases:26-36/37/39

Contains:

0.5-2 % Sodium hydroxide

5-10 % hydroquinone

Special Labell Information:

National Regulations:

VbF :n.a.

Water hazard class (german):2

Other Regulations :

16 Other informations

The data in this Material Safety Data Sheet relate only to the material designated herein and do not relate to any other material or in any other process. The information is furnished in good faith, but no warranty, expressed or implied, is made. Users should consider information from all sources to assure proper use and disposal of the materials and safety and health of employees and customers.

n.a.=not applicable n.i.=no information