

# **Developer ECO 4812**

1) substance-/ preparation and company name

Chemical name/ Trade name: ECO 4812

**Application/use:** Photographic developer

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#### 2) Hazards identification

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	6-12%	21799-87-1	244-584-7	not classified
POTASSIUM SALT				
POTASSIUM CARBONATE	8-12%	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
1-PHENYL-4-METHYL-4-	1-3%	13047-13-7	235-920-3	Xn R-48/22
HYDROXYMETHYL-3 PYRAZOLIDONE				
DIETHYLENTRIAMINE PENTAACETIC	1-5%	67-43-6	200-652-8	Xi R-36
ACID NA5				
SODIUM SULPHITE	9-14%	7757-83-7	231-821-4	not classified

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

4) first aid precautions

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

5) PRECAUTIONS for fire fighting

**Suitable extinguishing agents:** Coordinate extinguishing precautions on the surrounding fire.

**for security reasons** None confessed.

# EC safetydata sheet

According to 91/155/EWG



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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

for fire fighting: **Additional notes:**  None of special equipment required.

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 The product is not combustible.

explosion protection:

Requirements on storerooms

and containers:

closed.

None of special requirements necessary. Keep container tightly

None of special precautions required.

Together storage notes:

More details on Storage conditions:

Recommended storage temperature: 10 to 25 C

Store class: LGK 12 (VCI strategy)

8) outline demarcation and personal protection equipment

Additional indications for arrangement See section 7; no requirements going beyond this.

of technical plants:

Personal protection equipment:

**Breathing protection:** Sufficient ventilation, no additional protection necessary.

Hand protection: Gloves. Required qualities: Liquid proof.

9) physical and chemical qualities

Form: Liquid

Color: slightly yellow, clear.

Smell: Odourless. pH value: 10.80 (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:

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**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

Irritation-/ etching effect: The details refer to the technical active agents

Skin: no irritating

Eyes: strongly irritating

**Sensitization:** Sensitization of skin is possible.

Effect after repeated or longer 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 toxicological 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.

#### 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

**Packing:** Not contaminated packings can be recycled .

Empty packing completely, wash well

(Cleaning agent: water), can be recycled afterwards

#### 14) transport information

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ADR CLASS:

ROAD TRANSPORT NOTES:

RAIL TRANSPORT NOTES:

SEA TRANSPORT NOTES:

AIR TRANSPORT NOTES:

Not classified for rail transport

Not classified for sea transport

Not classified for air transport

Not classified for air transport

15) regulations

**Identification** The product is classified and labeled according to EC guidelines

by EC directives: (GefStoffVO)

Classification letter: none danger symbol: none

Danger identification: none

R sentences: R-36 Irritating to eyes.

R-43 May cause sensitisation by skin contact.

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:** This TA isn't a subject. **Water endangering class** 2 (water endangering)

(WGK): (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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R-PHRASES (FULL TEXT)

R-22 Harmful if swallowed. R-36 Irritating to eyes.