

SAFETY DATA SHEET  
B/W PAPER DEVELOPER ROLLEI VINTAGE ECO FRIEND  
Issued on 04/20/2011 - Rel. # 3 on 01/07/2015  
In conformity to Regulation (EC) No 453/2010 of 20 May 2010  
# 1 / 9

**SECTION1. Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

Product code: B/W PAPER DEVELOPER ROLLEI VINTAGE ECO FRIEND  
Trades code: RCD11

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Photographic process  
Professional use[SU22]  
Photochemicals  
Uses advised against  
Do not use for purposes other than those listed

**1.3. Details of the supplier of the safety data sheet**

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**1.4. Emergency telephone number**

+39 075 985 174

**SECTION2. Hazards identification**

**2.1. Classification of the substance or mixture**

2.1.1 Classification according to Regulation (EC) No 1272/2008:

Pictograms:

GHS07

Hazard Class and Category Code(s):

Skin Irrit. 2, Eye Irrit. 2

Hazard statement Code(s):

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

2.1.2 Classification according to Directive 1999/45/EEC:

Classification:

Nonhazardous

Nature of special risks attributed:

None in particular.

If brought into contact with eyes, the product causes significant irritations which may last for more than 24 hours, if brought into contact with skin, it causes significant inflammation with erythema, scabs, or edema

**2.2. Label elements**

Labelling according to Regulation (EC) No 1272/2008:

Pictogram, Signal Word Code(s):

GHS07 - Warning

Hazard statement Code(s):

H315 - Causes skin irritation.



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In conformity to Regulation (EC) No 453/2010 of 20 May 2010  
# 2 / 9

H319 - Causes serious eye irritation.

Precautionary statements:

General

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

Prevention

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Response

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 - If eye irritation persists: Get medical advice/attention.

### 2.3. Other hazards

The substance / mixture NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII  
No information on other hazards

## SECTION3. Composition/information on ingredients

### 3.1 Substances

Irrilevant

### 3.2 Mixtures

Refer to paragraph 16 for full text of risk phrases and hazard statements

Substance	Concentration	Classification	Index	CAS	EINECS	REACH
Potassium Carbonate an.	> 10 <= 20%	Xi; R36/37/38 Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335		584-08-7	209-529-3	01-2119532 646-36-001 0
diethylene glycol	> 1 <= 5%	Xn; R22 Acute Tox. 4, H302	603-140-00-6	111-46-6	203-872-2	01-2119457 857-21
Edetic acid	> 1 <= 5%	Xi; R36 607-429- 00-8 60-00-4 200- 449-4 Eye Irrit. 2, H319	607-429-00-8	60-00-4	200-449-4	

## SECTION4. First aid measures

### 4.1. Description of first aid measures

Inhalation:

Air the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated area.

If you feel unwell seek medical advice.

Direct contact with skin (of the pure product).:

Wash thoroughly with soap and running water.

Direct contact with eyes (of the pure product).:

Wash immediately and thoroughly with running water for at least 10 minutes.

Ingestion:

Not hazardous. It's possible to give activated charcoal in water or liquid paraffin medicine

### 4.2. Most important symptoms and effects, both acute and delayed

No data available.

### 4.3. Indication of any immediate medical attention and special treatment needed

If skin irritation occurs: Get medical advice/attention.

SAFETY DATA SHEET  
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Issued on 04/20/2011 - Rel. # 3 on 01/07/2015  
In conformity to Regulation (EC) No 453/2010 of 20 May 2010  
# 3 / 9

If eye irritation persists: Get medical advice/attention.

If medical advice is needed, have product container or label at hand.

## **SECTION 5. Firefighting measures**

### **5.1. Extinguishing media**

Advised extinguishing agents:

Water spray, CO<sub>2</sub>, foam, dry chemical, depending on the materials involved in the fire.

Extinguishing means to avoid:

Water jets. Use water jets only to cool the surfaces of the containers exposed to fire.

### **5.2. Special hazards arising from the substance or mixture**

No data available.

### **5.3. Advice for firefighters**

Use protection for the breathing apparatus

Safety helmet and full protective suit.

The spray water can be used to protect the people involved in the extinction.

You may also use self-respirator, especially when working in confined and poorly ventilated area and if you use halogenated extinguishers (Halon 1211 fluobrene, Solkan 123, NAF, etc...)

Keep containers cool with water spray

## **SECTION 6. Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

6.1.1 For non-emergency personnel:

Leave the area surrounding the spill or release. Do not smoke

Wear gloves and protective clothing

6.1.2 For emergency responders:

Wear gloves and protective clothing.

Eliminate all unguarded flames and possible sources of ignition. No smoking.

Provision of sufficient ventilation.

Evacuate the danger area and, in case, consult an expert.

### **6.2. Environmental precautions**

Contain spill with earth or sand.

If the product has entered a watercourse in sewers or has contaminated soil or vegetation, notify it to the authorities.

Discharge the remains in compliance with the regulations

### **6.3. Methods and material for containment and cleaning up**

6.3.1 For containment:

Recover the product for reuse, if possible, or for removal. Possibly absorb it with inert material.

Prevent it from entering the sewer system.

6.3.2 For cleaning up:

After wiping up, wash with water the area and materials involved

6.3.3 Other information:

None in particular.

### **6.4. Reference to other sections**

Refer to paragraphs 8 and 13 for more information

## **SECTION 7. Handling and storage**

### **7.1. Precautions for safe handling**

Avoid contact and inhalation of vapors. See also paragraph 8 below.

SAFETY DATA SHEET  
B/W PAPER DEVELOPER ROLLEI VINTAGE ECO FRIEND  
Issued on 04/20/2011 - Rel. # 3 on 01/07/2015  
In conformity to Regulation (EC) No 453/2010 of 20 May 2010  
# 4 / 9

At work do not eat or drink.

### 7.2. Conditions for safe storage, including any incompatibilities

Keep in original container closed tightly. Do not store in open or unlabeled containers.  
Keep containers upright and safe by avoiding the possibility of falls or collisions.  
Store in a cool place, away from sources of heat and direct exposure of sunlight.

### 7.3. Specific end use(s)

Professional use:  
Photographic and cinematographic treatment

## SECTION 8. Exposure controls/personal protection

### 8.1. Control parameters

Related to contained substances:

Potassium Carbonate an.

TLV-TWA: 3 mg / m<sup>3</sup> for respirable particles and 10 mg / cu m for injections  
diethylene glycol

DNEL (EC) sistemici\_Lungo Effects termine\_Dermale\_Lavoratori value: 106 mg/kg

DNEL (EC) locali\_Lungo Effects termine\_Inalazione\_Lavoratori value: 60 mg/m<sup>3</sup>

DNEL (EC) sistemici\_Lungo Effects termine\_Dermale\_Popolazione value: 53 mg/kg

DNEL (EC) locali\_Lungo Effects termine\_Inalazione\_Popolazione value: 12 mg/kg

PNEC STP (EC) intermittent Emission value: 10 mg/l

PNEC (EC) the value Soil: 1.53 mg/kg

PNEC (EC) fresh water value: 10 mg/l

PNEC (EC) seawater value: 1 mg/l

PNEC (EC) intermittent Emission value: 199.5 mg/l

PNEC (EC) Sediment (seawater) value: 20.9 mg/kg

TLV/TWA (EC) value: 101 mg/m<sup>3</sup>/23 ppm

Edetic acid

For this material have not been established exposure limits.

### 8.2. Exposure controls

Appropriate engineering controls:

Professional use:

Not established

Individual protection measures:

(a) Eye / face protection

When handling the pure product use safety glasses (spectacles cage) (EN 166).

(b) Skin protection

(i) Hand protection

When handling the pure product use chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3)

(ii) Other

When handling the pure product wear full protective skin clothing.

(c) Respiratory protection

Not needed for normal use.

(d) Thermal hazards

No hazard to report

Environmental exposure controls:

Related to contained substances:

Potassium Carbonate an.



SAFETY DATA SHEET  
 B/W PAPER DEVELOPER ROLLEI VINTAGE ECO FRIEND  
 Issued on 04/20/2011 - Rel. # 3 on 01/07/2015  
 In conformity to Regulation (EC) No 453/2010 of 20 May 2010  
 # 5 / 9

Individual protective equipment

General protective regulations and labour hygiene

At work do not eat, don't drink, don't smoke.

Breathing protection

In the case of recommended use of powder dust mask.

Hand protection

Wear rubber gloves approved according to EN374.

Eye protection

Safety goggles with side shields (EN 166).

Additional information about design of technical systems

Working environments must be adequately ventilated. Where possible, install localized sources of suction and effective systems of general air replacement. If these measures are not sufficient to maintain concentrations of particulate materials and vapours of solvents below the exposure limit, it will be necessary to make use of appropriate respiratory protection.

Edetic acid

Do not breathe dust. Avoid contact with skin.

**SECTION9. Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Physical and chemical properties	Value	Determination method
Appearance	Liquid	
Odour	irrelevant	
Odour threshold	irrelevant	
pH	10.60 ± 0.10 a 25 °C	
Melting point/freezing point	irrelevant	
Initial boiling point and boiling range	> 100 °C	
Flash point	nonflammable	ASTM D92
Evaporation rate	not determined	
Flammability (solid, gas)	irrelevant	
Upper/lower flammability or explosive limits	not explosive	
Vapour pressure	irrelevant	
Vapour density	irrelevant	
Relative density	1.210 ± 0.10 Kg/dm <sup>3</sup>	
Solubility	in water	
Water solubility	Complete	
Partition coefficient: n-octanol/water	not determined	
Auto-ignition temperature	nonflammable	
Decomposition temperature	irrelevant	
Viscosity	irrelevant	
Explosive properties	not explosive	
Oxidising properties	non-oxidizing	

**9.2. Other information**

No data available.

**SECTION10. Stability and reactivity**

**10.1. Reactivity**

Stable under normal conditions

**10.2. Chemical stability**

Stable under normal conditions

### 10.3. Possibility of hazardous reactions

There is no hazardous polymerization.

### 10.4. Conditions to avoid

No data available.

### 10.5. Incompatible materials

Contact with acids liberates toxic gas

### 10.6. Hazardous decomposition products

Carbon oxides (CO)

## SECTION 11. Toxicological information

### 11.1. Information on toxicological effects

ATE(mix) oral = 0,0 mg/kg

ATE(mix) dermal = 0,0 mg/kg

ATE(mix) inhal = 0,0 mg/l/4 h

(a) acute toxicity: Potassium Carbonate an.: Cause irritation to the mouth, throat, stomach and gastrointestinal problems

(b) skin corrosion/irritation: If brought into contact with the skin, the product causes significant inflammation with erythema, scabs, or edema.

Potassium Carbonate an.: Corrosion on contact with the eyes and can cause severe burns and deep ulcerations that can leave scars

Edetic acid: Contact with eyes: corrosive action on contact with the eyes and can cause severe burns and deep ulcerations that can leave scars.

Potassium Carbonate an.: Not reported evidence of this effect

Edetic acid: Skin contact: may cause slight irritation

(c) serious eye damage/irritation: If brought into contact with eyes, the product, causes significant irritations which may

last for more than 24 hours.

Potassium Carbonate an.: The seriousness of the injury depends on the concentration of the product, by time and temperature

Edetic acid: The seriousness of the injury depends on the concentration of the product, by time and temperature.

(d) respiratory or skin sensitization: Potassium Carbonate an.: May cause slight irritation.

Edetic acid: Sensitization: not reported evidence of this effect..

(e) germ cell mutagenicity: Potassium Carbonate an.: The concentration that can produce mutagenic effects strongly elevated. On the basis of the limited mutagenicity found in animals, the risk of genetic damage on humans is considered insignificant.

Edetic acid: Mutagenicity: the concentration which can produce mutagenic effects strongly elevated. On the basis of the limited mutagenicity found in animals, the risk of genetic damage on humans is considered insignificant.

(f) carcinogenicity: Potassium Carbonate an.: Not reported evidence of this effect

Edetic acid: Carcinogenicity: not reported evidence of such an effect.

(g) reproductive toxicity: Potassium Carbonate an.: Not reported evidence of such an effect.

Edetic acid: Reproduction effects: not reported evidence of such an effect.

(h) specific target organ toxicity (STOT) single exposure: not applicable

(i) specific target organ toxicity (STOT) repeated exposure: not applicable

(j) aspiration hazard: Potassium Carbonate an.: Cause irritation to the respiratory tract.

Edetic acid: Inhalation: causes irritation to the respiratory tract.

Related to contained substances:

Potassium Carbonate an.

SAFETY DATA SHEET  
B/W PAPER DEVELOPER ROLLEI VINTAGE ECO FRIEND  
Issued on 04/20/2011 - Rel. # 3 on 01/07/2015  
In conformity to Regulation (EC) No 453/2010 of 20 May 2010  
# 7 / 9

The product may have harmful effects on human health.

Related to contained substances:

LD50 (rat) Oral (mg/kg body weight) = 2000

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 2000

CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 5

diethylene glycol

Harmful if ingested, it causes nausea, vomiting, gastrointestinal disorders. The product may have harmful effects on human health.

LD50 (rat) Oral (mg/kg body weight) =

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 5000

CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 4,6

Edetic acid

Routes of entry: inhalation, ingestion, contact.

Ingestion: causes irritation to the mouth, throat, stomach and gastrointestinal problems.

LD50 (rat) Oral (mg/kg body weight) = 4500

## **SECTION 12. Ecological information**

### **12.1. Toxicity**

Related to contained substances:

Potassium Carbonate an.

The prepared categorized just dangerous for the environment.

Related to contained substances:

diethylene glycol

Alga Scenedesmus quadricauda value = 2700 mg/l. Daphnia Daphnia magna test value = 84000 mg/l. test: 48 h

Acinetobacter bacteria value = 8000 mg/l. test: 4:0 pm

Fish Gambusia affinis &gt; 32000 Value mg/l. test: 96 h

Edetic acid

Toxic to fish (Lc50): 100 mg/l ;

Toxic for Daphnia (EC50): 100 mg/l ;

Use according to good working practices to avoid pollution into the environment.

### **12.2. Persistence and degradability**

Related to contained substances:

Potassium Carbonate an.

Specific information is not available on this product.

diethylene glycol

Readily biodegradable.

Edetic acid

Not readily biodegradable.

### **12.3. Bioaccumulative potential**

Related to contained substances:

Potassium Carbonate an.

Unpredictable potential for bioaccumulation.

diethylene glycol

Not bioaccumulative.

Edetic acid

Bioconcentration factor: ca. 1.8 (28 d), lepomis macrochirus

The modest accumulation in organisms. The product was tested. The signs are derived by substances/products of similar composition or structure.

### **12.4. Mobility in soil**

Related to contained substances:

Potassium Carbonate an.



SAFETY DATA SHEET  
B/W PAPER DEVELOPER ROLLEI VINTAGE ECO FRIEND  
Issued on 04/20/2011 - Rel. # 3 on 01/07/2015  
In conformity to Regulation (EC) No 453/2010 of 20 May 2010  
# 8 / 9

Data not available

diethylene glycol

Specific information is not available on this product.

Edetic acid

The substance will evaporate into the atmosphere from the surface of the water.

Unpredictable absorption to the soil solid phase.

#### **12.5. Results of PBT and vPvB assessment**

The substance / mixture NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

#### **12.6. Other adverse effects**

No adverse effects

### **SECTION13. Disposal considerations**

#### **13.1. Waste treatment methods**

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies.

Recover if possible. Operate according to local or national regulations

### **SECTION14. Transport information**

#### **14.1. UN number**

Not included in the scope of application regulations concerning the transport of dangerous goods: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).

#### **14.2. UN proper shipping name**

None

#### **14.3. Transport hazard class(es)**

None

#### **14.4. Packing group**

None

#### **14.5. Environmental hazards**

None

#### **14.6. Special precautions for user**

No data available.

#### **14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

It is not intended to carry bulk

### **SECTION15. Regulatory information**

#### **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

##### **Related to contained substances:**

Potassium Carbonate an.

National provisions, periclosit class for water:

Periclosit class 1 water (WGK1) (Classif. According to lists): a little dangerous.

Counted among the vitamin and mineral substances permitted for the manufacture of food supplements in accordance with Legislative Decree No. 169 May 21, 2004 "implementation of Directive 2002/46/EC on food supplements".

VOC Regulations (Ministerial Decree No. 44 1/16/2004): not applicable

Ozone-depleting substances (regulation 1005/2009): not applicable



SAFETY DATA SHEET

B/W PAPER DEVELOPER ROLLEI VINTAGE ECO FRIEND

Issued on 04/20/2011 - Rel. # 3 on 01/07/2015

In conformity to Regulation (EC) No 453/2010 of 20 May 2010

# 9 / 9

Fluorinated greenhouse gases (regulation 842/2006): not applicable persistent organic pollutants (Council Regulation 850/2004): not applicable for placing on the market of biocidal products (Legislative Decree No. 174/2000

Government):

not applicable

Export and import of dangerous chemicals (689/2008 Regulation): not applicable

**15.2. Chemical safety assessment**

No chemical safety assessment was carried out by the supplier

SAFETY DATA SHEET  
B/W PAPER DEVELOPER ROLLEI VINTAGE ECO FRIEND  
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In conformity to Regulation (EC) No 453/2010 of 20 May 2010  
# 10 / 9

**16.1. Other information** SECTION 16. Other information

Points modified compared to previous release: 2.3. Other hazards

Description of the sentences of risk set out in paragraph 3

R22 = Harmful if swallowed.

R36 = Irritating to eyes.

R37 = Irritating to respiratory system.

R38 = Irritating to skin.

Description of the hazard statements exposed to point 3

H315 = Causes skin irritation.

H319 = Causes serious eye irritation.

H335 = May cause respiratory irritation.

H302 = Harmful if swallowed.

Classification based on data of all mixture components