

SAFETY DATA SHEET

Kodak Polychrome Graphics
A Subsidiary of Kodak

Violet 550R Replenisher

1. Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

Product name : Violet 550R Replenisher **Nr. SDS** : 30552
Date of issue : 2005-09-14.
Catalogue number : 9321118; 9321100 **Version** : 3
Area of application : Industrial applications. Graphic Arts product. Plate developer.

Company/undertaking identification

Supplier : Kodak Polychrome Graphics Europe S.A.
 8, Avenue François Arago
 Zone Industrielle BP 116
 92164 Antony Cedex
 France

Emergency telephone number : **Emergency telephone number: Int. + 31.30.2748888.**
(Dutch National Poison Information Centre) Only for physicians and medical specialists in case of an accidental poisoning.

For other EHS Information : Kodak Polychrome Graphics EHS-Affairs EU/AF/AS/AU
 P.O. Box 56, 3750 GB Bunschoten, The Netherlands
 Phone: Int. +31 33 299 88 80
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 E-mail: EHS-EU@kpgraphics.com

Sale Rep :
 Kodak Polychrome Graphics Ltd.
 Axis 1, Rhodes Way,
 Watford Herts, WD2 4FD, Great Britain
 Phone: +44 1923 23 66 66
 Fax: +44 1923 24 47 14

2. Composition/information on ingredients

Substance/preparation : Preparation

Ingredient name	CAS number	%	EC number	Symbol / R-Phrases
Water	7732-18-5	70-100	231-791-2	Not classified.
1-Propanaminium, 3-amino-n-(carboxymethyl)-n,n-dimethyl-, n-coco acyl derivs., inner salts	61789-40-0	1-5	263-058-8	Xi; R36
Potassium hydroxide	1310-58-3	0.5-2	215-181-3	Xn; R22 C; R35

See section 16 for the full text of the R Phrases declared above

Within the present knowledge of the supplier, this product does not contain any other hazardous ingredients in quantities requiring reporting in this section, in accordance with EU regulations or National regulations.

* Occupational Exposure Limit(s), if available, are listed in section 8

3. Hazards identification

Main hazards : Irritant
Human health hazards : Irritating to eyes and skin.
Environmental hazards : Not applicable.
Physical/chemical hazards : Not applicable.
Classification : Xi; R36/38

4. First aid measures

First aid measures

- Inhalation** : Allow the victim to rest in a well-ventilated area. If irritation persists, get medical attention.
- Ingestion** : Do not induce vomiting. Have conscious person drink several glasses of water or milk. Get medical attention immediately.
- Skin contact** : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. If irritation persists, get medical attention. Wash contaminated clothing before reusing.
- Eye contact** : Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.

See section 11 for more detailed information on health effects and symptoms.

5. Fire-fighting measures

Extinguishing media

- Suitable** : Use dry chemical, CO₂, water spray (fog) or foam.
- Not suitable** : None.
- Special exposure hazards** : No specific hazard.
- Hazardous thermal decomposition products** : These products are carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂...).
- Special protective equipment for fire-fighters** : Be sure to use an approved/certified respirator or equivalent.

6. Accidental release measures

- Personal precautions** : Splash goggles. Lab coat. Nitrile gloves. In case of insufficient ventilation, wear suitable respiratory equipment.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- Methods for cleaning up** : Absorb with an inert material and put the spilled material in an appropriate waste disposal. Neutralize the residue with a dilute solution of acetic acid. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

7. Handling and storage

- Handling** : Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapors or spray mists. Ventilation is normally required when handling or using this product (typically 10 air changes per hour). Wash thoroughly after handling.
- Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area. Prevent from freezing.
- Packaging materials**
- Recommended** : Use original container.

8. Exposure controls/personal protection

<u>Ingredient name</u>	<u>Occupational exposure limits</u>
Europe Potassium hydroxide	ACGIH TLV (United States, 1/2005). CEIL: 2 mg/m ³
United Kingdom (UK) Potassium hydroxide	EH40-WEL (United Kingdom (UK), 1/2005). STEL: 2 mg/m ³ 15 minute/minutes.

Exposure controls

- Occupational exposure controls** : Ventilation is normally required when handling or using this product (typically 10 air changes per hour). Ensure that eyewash stations and safety showers are close to the work-station location.
- Hygiene measures** : Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of day.
- Respiratory protection** : A respirator is not needed under normal and intended conditions of product use.

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- Hand protection** : Use chemical resistant gloves.
In case of prolonged immersion or frequently repeated contact use gloves made of the materials:
butyl rubber (thickness \geq 0.36 mm, breakthrough time > 480 min),
nitrile rubber (thickness \geq 0.38 mm, breakthrough time > 480 min) or
neoprene (thickness \geq 0.65 mm, breakthrough time > 240 min).
For intermittent splash protection corresponding gloves with breakthrough times > 60 min can be used.
Avoid gloves made of: natural rubber.
- Eye protection** : Splash goggles
- Skin protection** : Lab coat

9. Physical and chemical properties

- Physical state** : Liquid.
- Color** : Yellow. (Light.)
- Odor** : Odorless.
- pH** : 13 [Basic.]
- Boiling point** : >100°C (212°F)
- Melting point** : <0°C (32°F)
- Specific gravity** : 1.0081 (Water = 1)
- Vapor pressure** : 2.4 kPa (18 mm Hg) (at 20°C)
- Vapor density** : 0.6 (Air = 1)
- Flammability** : Non-flammable.
- Solubility** : Easily soluble in cold water.

10. Stability and reactivity

- Stability** : The product is stable.
- Conditions to avoid** : Not available.
- Materials to avoid** : Incompatible with strong oxidizing agents. Incompatible with some strong acids.
- Hazardous decomposition products** : These products are carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂...).

11. Toxicological information

Potential acute health effects

- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : Irritating to mouth, throat and stomach.
- Skin contact** : Irritating to skin. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.
- Eye contact** : Irritating to eyes. Inflammation of the eye is characterized by redness, watering, and itching.

Acute toxicity

<u>Ingredient name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
Potassium hydroxide	LD50	273 mg/kg	Oral	Rat

Potential chronic health effects

<u>Ingredient name</u>	<u>Carcinogenic effects</u>	<u>Mutagenic effects</u>	<u>Developmental toxicity</u>	<u>Impairs fertility</u>
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- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Reproductive toxicity** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : Irritating to mouth, throat and stomach.
- Skin** : Irritating to skin. Skin inflammation is characterized by itching, scaling, reddening or, occasionally, blistering.
- Other adverse effects** : Not available.

12. Ecological information

Ecotoxicity data

<u>Ingredient name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
Potassium hydroxide	Fish (LC50)	96 hour/hours	28.6 mg/l

Other ecological information

Persistence/degradability

<u>Ingredient name</u>	<u>BOD₅</u>	<u>COD</u>	<u>ThOD</u>
<u>Ingredient name</u>	<u>Aquatic half-life</u>	<u>Photolysis</u>	<u>Biodegradability</u>
<u>Bioaccumulative potential</u>			
<u>Ingredient name</u>	<u>LogP_{ow}</u>	<u>BCF</u>	<u>Potential</u>

Mobility : Not available.

Other adverse effects : No known significant effects or critical hazards.

13. Disposal considerations

Methods of disposal : Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Waste classification : This product is listed as Hazardous by the EU Directive on hazardous waste. Dispose of according to all national and local applicable regulations.

European waste catalogue (EWC) : 09 01 02 + 15 01 10

14. Transport information

International transport regulations

<u>Regulatory information</u>	<u>UN number</u>	<u>Proper shipping name</u>	<u>Class</u>	<u>Packing group</u>	<u>Label</u>	<u>Additional information</u>
ADR/RID Class	UN1814	POTASSIUM HYDROXIDE SOLUTION	8	III		CEPIC Tremcard 80GC5-III
IMDG Class	UN1814	POTASSIUM HYDROXIDE SOLUTION	8	III		Emergency schedules (EmS) F-A, S-B
IATA-DGR Class	UN1814	POTASSIUM HYDROXIDE SOLUTION	8	III		-

15. Regulatory information

EU Regulations

Hazard symbol/symbols :



Irritant

R-Phrases : R36/38- Irritating to eyes and skin.

S-Phrases : S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

16. Other information

Full text of R-phrases referred to in sections 2 and 3 - United Kingdom (UK) : R22- Harmful if swallowed.
R35- Causes severe burns.
R36- Irritating to eyes.
R36/38- Irritating to eyes and skin.

Full text of classifications referred to in sections 2 and 3 - United Kingdom (UK) : C - Corrosive
Xn - Harmful
Xi - Irritant

Revision comments : Section : 1, 8; 16

History

Date of printing : 2006-04-24.

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Version : 3

Prepared by : Kodak Polychrome Graphics, EHS-EU/AF/AS/AU, Bunschoten, NL

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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