

Page 1/14

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 15.02.2023

Version 1.0

Revision: 15.02.2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- · 1.1 Product identifier
- · Trade name: PD5 Paper Developer
- · Article number: 13701
- · UFI: K2Y0-A0C0-X00G-CXYP
- 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · Application of the substance / the mixture

Photographic activities Photographic developer

- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Jay House Ltd Redman Road Calne, SN11 9PL

Tel.: +44 01249 714555 Email: info@fotospeed.com

www.fotospeed.com

Informing department: Tel.: +44 01249 714555 Email: info@fotospeed.com Emergency telephone number: Tel.: ++44 07831161781 Tel.: +44 01249 714555

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



GHS08 health hazard

Muta. 2

H341 Suspected of causing genetic defects.

Carc. 2

H351 Suspected of causing cancer.



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.

(Contd. on page 2)

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Page 2/14

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 15.02.2023

Version 1.0

Revision: 15.02.2023

Trade name: PD5 Paper Developer

(Contd. of page 1)



Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms







GHS05 GHS07 GHS08

- · Signal word Danger
- · Hazard-determining components of labelling:

tetrasodium ethylenediaminetetraacetate

hydroquinone

potassium hydroxide

Hazard statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

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

protection/hearing protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P308+P313

If exposed or concerned: Get medical advice/attention.

P310

Immediately call a POISON CENTER/doctor.

If skin irritation or rash occurs: Get medical advice/attention. P333+P313

P405 Store locked up. Dispose of contents/container in accordance with local/regional/ P501

national/international regulations.

(Contd. on page 3)

Fotospeed

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Page 3/14

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 15.02.2023

Version 1.0

Revision: 15.02.2023

(Contd. of page 2)

Trade name: PD5 Paper Developer

· 2.3 Other hazards

· Results of PBT and vPvB assessment

PBT: Not applicable.vPvB: Not applicable.

· Determination of endocrine-disrupting properties

95-14-7 benzotriazole

List II

SECTION 3: Composition/information on ingredients

- · 3.2 Mixtures
- · **Description:** Mixture of the substances listed below with harmless additions.

· Dangerous compor	· Dangerous components:		
CAS: 584-08-7 EINECS: 209-529-3	potassium carbonate Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	≥ 15 - < 20%	
CAS: 64-02-8 EINECS: 200-573-9	tetrasodium ethylenediaminetetraacetate Eye Dam. 1, H318 Acute Tox. 4, H302; Acute Tox. 4, H332	≥ 3 - ≤ 5%	
CAS: 123-31-9 EINECS: 204-617-8	hydroquinone Muta. 2, H341; Carc. 2, H351 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Acute Tox. 4, H302; Skin Sens. 1, H317	≥ 2 - < 2.5%	
CAS: 1310-58-3 EINECS: 215-181-3	potassium hydroxide Met. Corr.1, H290; Skin Corr. 1A, H314 Acute Tox. 4, H302 Specific concentration limits: Skin Corr. 1A;H314: C ≥ 5 % Skin Corr. 1B; H314: 2 % ≤ C < 5 % Skin Irrit. 2; H315: 0.5 % ≤ C < 2 % Eye Irrit. 2; H319: 0.5 % ≤ C < 2 %	≥ 0.5 - < 2%	
CAS: 95-14-7 EINECS: 202-394-1	benzotriazole Aquatic Chronic 2, H411 Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2, H319	≥ 0.25 - < 0.5%	

[·] Additional information For the wording of the listed hazard phrases refer to section 16.

(Contd. on page 4)



Page 4/14

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 15.02.2023

Version 1.0

Revision: 15.02.2023

Trade name: PD5 Paper Developer

(Contd. of page 3)

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · General information

Instantly remove any clothing soiled by the product.

Personal protection for the First Aider.

- · After skin contact Instantly wash with water and soap and rinse thoroughly.
- · After eve contact

Rinse opened eye for several minutes under running water (at least 15 minutes).

Remove contact lenses, if present and easy to do.

Protect uninjured eye.

Call a doctor immediately.

- · After swallowing In case of persistent symptoms consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents

CO2, extinguishing powder or water jet. Fight larger fires with water spray jet or alcohol-resistant foam.

Use fire fighting measures that suit the environment.

- · For safety reasons unsuitable extinguishing agents Water with a full water jet.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- **Protective equipment:** Do not inhale explosion gases or combustion gases.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions:

Do not allow to enter drainage system, surface or ground water.

(Contd. on page 5)



Page 5/14

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 15.02.2023

Version 1.0

Revision: 15.02.2023

Trade name: PD5 Paper Developer

(Contd. of page 4)

· 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralising agent.

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle container with care.

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep breathing equipment ready.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage
- · Requirements to be met by storerooms and containers: No special requirements.
- · Information about storage in one common storage facility:

Keep away from foodstuffs, beverages and food.

· Further information about storage conditions:

Keep container tightly sealed.

Store in a cool place.

- · Recommended storage temperature: 5-25 °C
- · Storage class 12
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
- Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

123-31-9 hydi	<u> </u>
OEL (Ireland)	Long-term value: 0.5 mg/m ³ Sens
	(Contd. on page 6

(Contd. on page 6)



Page 6/14

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 15.02.2023

Version 1.0

Revision: 15.02.2023

Trade name: PD5 Paper Developer

		(Contd. of page 5)
1310-58-3 potassi	um hydroxide	
OEL (Ireland) Shor	rt-term value: 2 mg/m³	
· DNELs		
ATE (Acute Toxicity Estimates)		
Inhalative Systema	tic effects - long term 39.9 m	ng/m³

Additional information:

The lists that were valid during the compilation were used as basis.

· 8.2 Exposure controls

- Appropriate engineering controls No further data; see section 7.
- · Individual protection measures, such as personal protective equipment
- General protective and hygienic measures

The usual precautionary measures should be adhered to general rules for handling chemicals.

Keep away from foodstuffs, beverages and food.

Take off immediately all contaminated clothing.

Wash hands during breaks and at the end of the work.

Store protective clothing separately.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

Do not eat, drink or smoke while working.

· Breathing equipment:

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

Hand protection

Protective gloves.

The protective gloves to be used must comply with the specifications of the (EU) 2016/425 and the resultant standard EN 374.

This recommendation applies only to the product stated in the Safety Data Sheet and supplied by us as well as to the purpose specified by us.

Only use chemical-protective gloves with CE-labelling of category III.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

Thickness	Breakthrough	time
	(mm)	(min)
Nitril rubber	0,38	> 480
Neoprene	0,65	> 240
Butyl rubber	0,36	> 480
Avoid natural rub	ber gloves.	

(Contd. on page 7)

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Page 7/14

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 15.02.2023

Version 1.0 Revision: 15.02.2023

Trade name: PD5 Paper Developer

(Contd. of page 6)

As protection from splashes gloves made of the following materials are suitable:

Synthetic gloves

Value for the permeation: Level:

≥ 3 (60 min)

· Eye/face protection Tightly sealed safety glasses.

· Body protection: Protective work clothing.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Physical state Fluid

· Colour: Light yellow

· Odour: Product specific

· Odour threshold: Not determined.

• Melting point/freezing point: Not determined

Boiling point or initial boiling point and

boiling range 100 °C (7732-18-5 water)

· Flammability Not applicable.

· Lower and upper explosion limit

· Lower: Not determined.

· Upper: Not determined.

· Flash point: Not applicable

• **Decomposition temperature:** Not determined.

• **pH at 20 ℃** 11.8

· Viscosity:

Kinematic viscositydynamic:Not determined.Not determined.

· Solubility

· Water: miscible

· Partition coefficient n-octanol/water (log

value) Not determined.

· Vapour pressure at 20 °C: 23 hPa (7732-18-5 water)

Density and/or relative density

DensityRelative densityNot determinedNot determined.

· Vapour density Not determined.

(Contd. on page 8)



Page 8/14

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 15.02.2023 Version 1.0

Trade name: PD5 Paper Developer

(Contd. of page 7)

Revision: 15.02.2023

· 9.2 Other information

· Appearance:

· Form: Fluid

· Important information on protection of health and environment, and on safety.

Self-inflammability: Product is not selfigniting.
 Explosive properties: Product is not explosive.

· Solvent content:

· Water: 58.6 %

· Change in condition

· Evaporation rate Not determined.

· Information with regard to physical

hazard classes

· Explosives Void · Flammable gases Void · Aerosols Void · Oxidising gases Void · Gases under pressure Void Flammable liquids Void · Flammable solids Void · Self-reactive substances and mixtures Void · Pyrophoric liquids Void Pyrophoric solids Void Self-heating substances and mixtures Void · Substances and mixtures, which emit flammable gases in contact with water Void Void

flammable gases in contact with water
Oxidising liquids
Oxidising solids
Organic peroxides
Corrosive to metals
Desensitised explosives
Void

SECTION 10: Stability and reactivity

- 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:
 No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known
- 10.4 Conditions to avoid No further relevant information available.

(Contd. on page 9)



Page 9/14

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 15.02.2023

Version 1.0

Revision: 15.02.2023

Trade name: PD5 Paper Developer

(Contd. of page 8)

- · 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products:
 No dangerous decomposition products known

SECTION 11: Toxicological information

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.
- · LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimates)

Oral LD50 14,747 mg/kg (rat)

- · Skin corrosion/irritation Causes skin irritation.
- · Serious eye damage/irritation Causes serious eye damage.
- · Respiratory or skin sensitisation May cause an allergic skin reaction.
- · Germ cell mutagenicity Suspected of causing genetic defects.
- · Carcinogenicity Suspected of causing cancer.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure

Based on available data, the classification criteria are not met.

- · Aspiration hazard Based on available data, the classification criteria are not met.
- Additional toxicological information:

This statement was deduced from the properties of the single components.

· 11.2 Information on other hazards

· Endocr	ine disrupting properties	
95-14-7	benzotriazole	List II

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- 12.6 Endocrine disrupting properties

For information on endocrine disrupting properties see section 11.

(Contd. on page 10)



Page 10/14

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 15.02.2023

Version 1.0

Revision: 15.02.2023

Trade name: PD5 Paper Developer

(Contd. of page 9)

- · 12.7 Other adverse effects
- · Ecotoxical effects: No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 3 (German Regulation) (Self-assessment): highly water-endangering.

Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

Danger to drinking water if even small quantities leak into soil.

At present there are no ecotoxicological assessments.

This statement was deduced from the properties of the single components.

The product does not contain organically bounded halogens (AOX-free).

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Must be specially treated under adherence to official regulations.

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

· European waste catalogue

HP7	Carcinogenic
HP11	Mutagenic

- · Uncleaned packagings:
- · Recommendation:

Non contaminated packagings can be used for recycling.

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

(Contd. on page 11)



Page 11/14

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 15.02.2023

Version 1.0

Revision: 15.02.2023

Trade name: PD5 Paper Developer

(Contd. of page 10)

· Recommended cleaning agent: Water, if necessary with cleaning agent.

SECTION 14: Transport infor	rmation
· 14.1 UN number or ID number · ADR/RID, IMDG, IATA	Void
· 14.2 UN proper shipping name · ADR/RID, IMDG, IATA	Void
· 14.3 Transport hazard class(es)	
· ADR/RID, ADN, IMDG, IATA · Class	Void
· 14.4 Packing group · ADR/RID, IMDG, IATA	Void
· 14.5 Environmental hazards:	Not applicable.
· 14.6 Special precautions for user Not applicable.	
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· UN "Model Regulation":	Void

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Labelling according to Regulation (EC) No 1272/2008

 The product is classified and labelled according to the CLP regulation.
- Hazard pictograms







GHS05 GHS07 GHS08

- · Signal word Danger
- Hazard-determining components of labelling: tetrasodium ethylenediaminetetraacetate hydroquinone

(Contd. on page 12)



Page 12/14

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 15.02.2023

Version 1.0

Revision: 15.02.2023

Trade name: PD5 Paper Developer

(Contd. of page 11)

potassium hydroxide

· Hazard statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction. H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

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

protection/hearing protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P308+P313 If exposed or concerned: Get medical advice/attention.

P310 Immediately call a POISON CENTER/doctor.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/

national/international regulations.

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

- · REGULATION (EU) 2019/1148
- · Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

 Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

(Contd. on page 13)



Page 13/14

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 15.02.2023

Version 1.0

Revision: 15.02.2023

Trade name: PD5 Paper Developer

(Contd. of page 12)

- · National regulations
- · Decree to be applied in case of technical fault:

Class	Share in %
I	2.2

· Water hazard class:

Water danger class 3 (Self-assessment): highly water-endangering.

· 15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Relevant phrases

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European

Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (RÈACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative Met. Corr.1: Corrosive to metals - Category 1

Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Dam. 1: Serious eye damage/eye irritation - Category 1

(Contd. on page 14)



Page 14/14

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 15.02.2023

Version 1.0

Revision: 15.02.2023

Trade name: PD5 Paper Developer

(Contd. of page 13)

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

Muta. 2: Germ cell mutagenicity – Category 2
Carc. 2: Carcinogenicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

· Sources

Internal physical tests, MSDS of the ingredients,

Information system on hazardous substances of the German Social Accident Insurance (GESTIS-database on hazardous substances), http://www.dguv.de/ifa/en/gestis/stoffdb/ index.jsp

applicable EEC directives:

- 1907/2006
- 1272/2008