SAFETY DATA SHEET according to Regulation (EC) No 1907/2006 (REACH Annex II) and its

according to Regulation (EC) No 1907/2006 (amendments



PL10 PHOTOPOLYMER DEVELOPER

SUBID : 000000011962

Print Date 13.06.2016

Version 1

Revision Date 08.10.2014

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Identification of the substance or mixture:

Product name	:	PL10 PHOTOPOLYMER DEVELOPER
Additional identification REACH Registration No	:	SD HV430 POL DEV, Saphira V Developer, N-100 Dev Registration numbers of the individual components: see section 3.2, if applicable.

1.2 Use of the substance/mixture:

Identified relevant uses Uses advised against	Offset plate developer solution Do not use for products which come into direct contact with food stuffs. Do not use for products which come into direct contact with the skin. Only for professional use.
	with the skin. Only for professional use.

1.3 Company/undertaking identification

Agfa-Gevaert Ltd. Vantage West Great West Road Brentford, Middlesex TW8 9AX United Kingdom Tel. : +44 (0)20 8 231 4616 Fax : +44 (0)20 8 231 4951 E-mail: electronic.sds@agfa.com

1.4 Emergency telephone

Emergency telephone number (Belgium) : +32 3 4443333 (24h/24h)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

Regulation(EC) No 1272/2008 (CLP)

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

67/548/EEC or 1999/45/EC

This product is not to be labelled as a dangerous substance or preparation as defined by Regulation (EC) No 1272/2008 on the classification , labelling and packaging of substances and mixtures (CLP Regulation).

Full text of each relevant R and H phrase is listed in section 16.

2.2 Label elements:

This product is not to be labelled as a dangerous substance or preparation as defined by Regulation (EC) No 1272/2008 on the classification , labelling and packaging of substances and mixtures (CLP Regulation).

2.3 Other hazards:

This product does not meet the criteria concerning PBT or vPvB substances as described in Annex XIII of the REACH regulation (1907/2006 EC)

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3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixture related information:

Aqueous offset plate developer solution, mainly consisting of:

3.2 Hazard ingredients:

The hazard and labelling information in this section is that of the individual ingredients. The corresponding information relative to this product as supplied is given in section 2.1.

Hazardous components in the meaning of regulation(EC) No 1272/2008 (CLP)

٠	Potassium silicate		Concentration [%] :	1.0	-	3.0
	CAS-No.	1	1312-76-1			
	EINECS-No.	1	215-199-1			
	REACH Registration No	1	01-2119456888-17-0001			
	Hazard classes	1	Skin corrosion, Serious eye damage			
	Hazard categories	1	Category 1B, Category 1			
	Hazard statements	1	H314, H318			

Hazardous components in the meaning of 67/548/EEC or 1999/45/EC

 Potassium silicate 		Concentration [%] :	1.0 -	3.0
CAS-No.	: 1312-76-1			
EINECS-No.	: 215-199-1			
Symbol(s)	: C			
R-phrase(s)	: R34			

Components with a community workplace exposure limit

Potassium hydroxide

3.3 Remark:

Full text of each relevant R and H phrase is listed in section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures:

Eye contact	: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Skin contact	: Wash immediately with plenty of water and soap. If symptoms persist, seek medical advice.
Ingestion	 Rinse mouth with plenty of water. Consult a physician if necessary. Do not induce vomiting.
Inhalation	: Take patient to fresh air if necessary. Consult a physician if necessary.

4.2 Most important symptoms and effects:

- Symptoms
- : In case of eye contact: redness and pain.

4.3 Indication of immediate medical attention and special treatment needed:

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General advice	: Call a physician immediately.
IRE-FIGHTING MEASURES	
5.1 Extinguishing media	
Suitable extinguishing media	: Dry extinguishing powder., Alcohol-resistant foam., Carbon dioxide (CO2)., Water spray.
Extinguishing media which must not be used for safety reasons	 Do not use a solid water stream as it may scatter and spread fire.
5.2 Special hazards arising fro	om the substance or mixture:
Specific hazards during fire fighting	: Do not use a solid water stream as it may scatter and spread fire.
Further information	 Product is not combustible.Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
5.3 Advice for fire-fighters:	
Special protective equipment for fire-fighters	: Regular fire intervention clothes.
ACCIDENTAL RELEASE MEAS 6.1 Personal precautions, pro	tective equipment and emergency procedures:
ACCIDENTAL RELEASE MEAS	tective equipment and emergency procedures: : Cleanup personnel must use appropriate personal protective
ACCIDENTAL RELEASE MEAS 6.1 Personal precautions, pro	tective equipment and emergency procedures:
ACCIDENTAL RELEASE MEAS 6.1 Personal precautions, pro- Personal precautions Additional advice	 tective equipment and emergency procedures: Cleanup personnel must use appropriate personal protective equipment. Observe normal precautions when handling chemicals.
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ACCIDENTAL RELEASE MEAS 6.1 Personal precautions, pro- Personal precautions Additional advice 6.2 Environmental precaution	 tective equipment and emergency procedures: Cleanup personnel must use appropriate personal protective equipment. Observe normal precautions when handling chemicals. s: The product should not be allowed to enter drains, water courses or the soil.
ACCIDENTAL RELEASE MEAS 6.1 Personal precautions, pro- Personal precautions Additional advice 6.2 Environmental precautions Environmental precautions	 tective equipment and emergency procedures: Cleanup personnel must use appropriate personal protective equipment. Observe normal precautions when handling chemicals. s: The product should not be allowed to enter drains, water courses or the soil.
ACCIDENTAL RELEASE MEAS 6.1 Personal precautions, pro- Personal precautions Additional advice 6.2 Environmental precautions Environmental precautions 6.3 Methods and material for o Methods for cleaning up	 tective equipment and emergency procedures: Cleanup personnel must use appropriate personal protective equipment. Observe normal precautions when handling chemicals. s: The product should not be allowed to enter drains, water courses or the soil. containment and cleaning up: Dike the spill if necessary. If spill occurs, apply a suitable absorbent material and collect into an impervious waste container. Collect the product in a plastic vessel. Carefully collect leftovers.
ACCIDENTAL RELEASE MEAS 6.1 Personal precautions, pro- Personal precautions Additional advice 6.2 Environmental precautions Environmental precautions 6.3 Methods and material for o	 tective equipment and emergency procedures: Cleanup personnel must use appropriate personal protective equipment. Observe normal precautions when handling chemicals. s: The product should not be allowed to enter drains, water courses or the soil. containment and cleaning up: Dike the spill if necessary. If spill occurs, apply a suitable absorbent material and collect into an impervious waste container. Collect the product in a plastic vessel. Carefully collect leftovers.
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Advice on protection against fire and explosion	chemicals.Employees should wash their hands and face be eating, drinking, or using tobacco products.Keep away from foodstuffs, drinks and tobacco. No special protective measures against fire and explosion required.	
7.2 Conditions for safe storage		
1.2 Ophanions for sale storage		
Requirements for storage areas and containers	Keep container tightly closed.Keep in a dry place.	
Requirements for storage	Keep container tightly closed.Keep in a dry place. Keep container in a well-ventilated place.	

7.3 Specific end use:

This substance is used only by trained professionals under restricted conditions.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:

8.1.1 Components with occupational exposure limits rsp. biological occupational exposure limits requiring monitoring:

8.1.1.1 Occupational exposure limits:

Air limit values

 Potassiun 	n hydroxide			CAS-No.: 1310-58-3
Basis	Revision	Value	Туре	
	Date			
EH40 WEL	2005	2 mg/m3	STEL	

Biological limit values

We are not aware of any national exposure limit.

8.1.1.2 Additional exposure limits under the conditions of use:

No other exposure limits applicable.

8.1.1.3 DNEL/DMEL and PNEC-values:

DNEL

No Chemical Safety Report performed. No DNEL/DMEL value determined.

PNEC

No Chemical Safety Report performed. No PNEC value determined.

8.2 Exposure controls:

Occupational exposure controls:

> Instruction measures to prevent exposure:

Employees should wash their hands and face before eating, drinking, or using tobacco products. Keep away from foodstuffs, drinks and tobacco.

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> Technical measures to prevent exposure:

Ensure adequate ventilation.

Personal measures to prevent exposure:

•	-
Hand protection : Eye protection :	Use chemical resistant gloves. In case of prolonged immersion or frequently repeated contact use gloves made of the materials: butylrubber (thickness >= 0.70 mm, breakthrough time > 480 min).(EN 374). The use of protective gloves should conform to the specifications of EC directive 89/686/EC and the resultant standard EN374. Additional advice: The data are based on own tests, literature data and information of glove manufacturers or derived from similar substances. Because several factors may influence these properties (eg temperature), one should take into account the fact that the life of a chemical gloves in practice may be considerably shorter than indicated by the permeation test. The high diversity of types of use are prescribed by the manufacturer. Safety glasses.
Body Protection :	Safety clothes.

Environmental exposure controls:

Do not release into drain. Collect for removal by a licensed waste contractor. Effluent regulations/discharge/treatment/contents may vary from one area to another. Please consult the local regulations regarding the disposal of this material.

EU Directive	Status
European Directive 2000/60/EC (water)	not on list
European Directive 1996/62/EC (air)	not on list

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Basic physical and chemical properties:

9.1.1 Appearance:

State of matter	: Liquid
Form	: Liquid.
Color	: Colourless.
Odor	: Odourless.
Odor threshold	: No data available

9.1.2 Important health, safety and environmental information:

pH (25 °C) Melting point/range Boiling point/range Flash point	: 12.8 : <0 °C : > 100 °C : > 93.33 °C Not combustible.	Method: Literature. Method: Literature. Method: Literature. Method: Literature.
Autoignition temperature Vapour pressure (20 °C) Relative vapour density Relative density (20 °C)	 does not ignite 23.00 hPa No data available 1.031 	Method: Literature. Method: Literature.

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Density	: No data available	
Solubility/qualitative	: Miscible with water at all ra	atios
Water solubility	: soluble	
Partition coefficient (n-	: Not applicable	
octanol/water)		
Viscosity, dynamic	: No data available	
Lower explosion limit	: No data available	
Upper explosion limit	: No data available	
Evaporation rate	: No data available	
Flammability (solid, gas)	: Not flammable.	Method: Literature.
9.2 Other information:		
10. STABILITY AND REACTIVIT	Y	
10.1 Reactivity:		
Reactivity	: Reactivity is not to be expe temperature and pressure.	ected under normal conditions of
10.2 Chemical stability:		
Stability	: The product is stable under normal conditions of storage and use.	
10.3 Possibility of hazardous	s reactions:	
Hazardous reactions	: The product is stable under normal conditions of storage and use.	
10.4 Conditions to avoid:		
Conditions to avoid	: Avoid contact with strong acids. Remove all chemicals and rinse the processing tanks thoroughly with water before using any cleansing products.	
10.5 Materials to avoid:		
Materials to avoid	: No data available	
10.6 Hazardous decompositi	on products:	
Hazardous decomposition products	: No specified dangerous de	ecomposition products are known.
11. TOXICOLOGICAL INFORMA	TION	
11.1 Information on toxicolog	gical effects	
Toxicity data specific for individ	dual ingredients in their pure state	e:
Toxicokinetics, metabolism	and distribution:	

• Potassium silicate

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No data available

Acute effects (toxicity tests):

> Acute Toxicity

• Potassium silicate

	Effect dose	Species	Value Method
Acute oral toxicity	LD50	rat	> 2,000 mg/kg Literature.
	Based on av	ailable data,	the classification criteria are not met.
Acute dermal toxicity			> 5,000 mg/kg Literature.
	Based on av	ailable data,	the classification criteria are not met.
Acute inhalation toxicity	LC50	rat	> 2.06 mg/l/ 4 h Literature.

> Specific target organ toxicity (STOT):

Potassium silicate

Specific effects	Affected organs

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

> Irritant and corrosive effects:

• Potassium silicate

	Exposure time	Species	Evaluation	Method
Primary irritation to the skin			Irritating to skin.	Literature.
Irritation to eyes			Irritating to eyes.	Literature.
	Risk of serie	ous damage	to eyes.	

> Irritation to the respiratory tract:

• Potassium silicate

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

> Sensitisation:

• Potassium silicate

Species	Evaluation	Method
guinea pig	Did not cause sensitization on laboratory animals.	Buehler Test

> Aspiration hazard:

• Potassium silicate

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

Sub-acute, sub-chronic and chronic toxicity

Repeated dose toxicity:

Potassium silicate

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> Specific target organ toxicity (STOT):

• Potassium silicate

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

> CMR effects (carcinogenity, mutagenicity and toxicity for reproduction):

- Carcinogenicity

• Potassium silicate

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

- Mutagenicity

• Potassium silicate

There is no evidence for mutagenicity from studies in animals.

- Genetic toxicity in vitro

Potassium silicate

Туре	Test system	Concentration	Result
			negative
	Method: Literature.		

- Genetic toxicity in vivo

Potassium silicate

Route of exposure	Species	Exposure time	Result
			negative
	Method: Literature.		

- Teratogenicity

• Potassium silicate

Route of exposure	Species	Exposure time
	Method: Literature. Based on available data, tl	he classification criteria are not met.

- Toxicity to reproduction

Potassium silicate

Route of exposure	Species	Exposure time
	Method: Literature. Based on available da	ta, the classification criteria are not met.

> Summarised evaluation of the CMR properties:

Potassium silicate Carcinogenicity Mutagenicity	 Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.
Teratogenicity	: Based on available data, the classification criteria are not met.
Toxicity to reproduction	: Based on available data, the classification criteria are not met.

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Experiences made in practice:

• Potassium silicate

Inhalation of mist causes irritation of respiratory system.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity:

• Potassium silicate

	Effect	Exposure	Species	Value
	dose	time		
Toxicity to fish	LC50	96 h	Leuciscus idus (golden orfe)	> 100 mg/l
	Method:	Literature.		
	Based or	n available da	ata, the classification criteria are not met.	
Toxicity to daphnia	EC50	48 h	Daphnia magna (water flea)	> 100 mg/l
	Method:	Literature.		-
	Based or	n available da	ata, the classification criteria are not met.	
Toxicity to algae	EC50	72 h	Scenedesmus subspicatus	207 mg/l
			(algae)	
	Method: OECD Test Guideline 201			
Toxicity to algae	EC0	72 h	Scenedesmus subspicatus	35 mg/l
			(algae)	_
	Method: OECD Test Guideline 201			
Toxicity to bacteria	EC50	17 h	Pseudomonas putida	> 100 mg/l
			(bacteria)	_
	Method:	Literature.		
	Based or	n available da	ata, the classification criteria are not met.	

12.2 Persistence and degradability:

Physico-chemical removability

Neutralization is normally necessary before waste water is discharged into water treatment plants.

Chemical Oxygen Demand (COD)

Value	Method
125,000 mg/l	Literature.

Adsorbed organic bound halogens (AOX)

Product does not contain any organic halogens.

Biodegradation

• Potassium silicate

The methods for determining biodegradability are not applicable to inorganic substances.

Biochemical Oxygen Demand (BOD)

Concentration	Incubation time	Value	Method
		3,020 mg/l	

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12.3 Bioaccumulative potential:

Partition coefficient (n-octanol/water)

Not applicable

Bioconcentration factor (BCF)

• Potassium silicate

Bioaccumulation is unlikely.

12.4 Mobility in soil:

• Potassium silicate

not applicable

Henry's constant

Value	Temperature	Method
		No information available.

Transport between environmental compartments

• Potassium silicate

No data available

12.5 Results of PBT and vPvB assessment:

This product does not meet the criteria concerning PBT or vPvB substances as described in Annex XIII of the REACH regulation (1907/2006 EC)

12.6 Other adverse effects:

This preparation does not contain any ingredient that is classified as hazardous to the environment according to European Directives and corresponding national legislation.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Waste disposal methods

Do not release into drain. Collect for removal by a licensed waste contractor. Effluent regulations/discharge/treatment/contents may vary from one area to another. Please consult the local regulations regarding the disposal of this material.

May be discharged to drain if local regulations permit.

Empty containers.

As the packaging can be contaminated with product residus, please observe the warnings of the label even when the container is empty.Do not reuse empty container without proper cleaning.Label precautions also apply to this container when empty.

For waste resulting from the expired product, it is recommended to use European Waste Code : 09 01 02 (water-based offset plate developer solutions).

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14. TRANSPORT INFORMATION

Not regulated according to ADR. Not regulated according to ADNR. Not regulated according to RID. Not regulated according to IMO/IMDG. Not regulated according to ICAO/IATA aircraft only. Not regulated according to ICAO/IATA passenger and cargo aircraft.

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

Authorisation and/or restriction on use

Authorisation Restriction on use	 No Not listed on EU. REACH, Annex XVII, Restrictions on manufacture, placing on the market and use of certain dangerous substances, mixtures & articles (Reg 1907/2006/EC, as amended
	as amended

Other EU regulations

Does not fall under specific EU-Regulations.

15.2 Chemical Safety Assessment

No Chemical Safety Report needed according REACH.

16. OTHER INFORMATION

Text of H-phrases referred to under headings 2 and 3:

H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

Text of R-phrases referred to under headings 2 and 3:

R34 Causes burns.

Further information

This Safety Data Sheet is compiled in accordance with European Directives and corresponding national legislation.

The information disclosed in this Safety Data Sheet is believed to be correct to the best of our current knowledge and experience. It only relates to the specific product designated herein and it may not be valid when said product is used in combination with any other material or in any process, unless specified in the text. This document aims to provide the necessary health and safety information of the product and is not to be considered a warranty or quality specification. It is the responsibility of the user to comply with local legislation relating to safety, health, environment and waste management.

Sources of key data used to compile the datasheet

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Handbuch der gefährlichen Güter, Hommel.
The Dictionary of Substances and their Effects, Royal Society of Chemistry.
Gefährliche Chemische Reaktionen, L.Roth und U.Weller.
Handbuch der Umweltgifte, Dauderer.
Chemiekaarten, latest version.
Safety Data Sheet from the supplier.
IUCLID Test data. This safety data sheet contains an ES (if applicable) in an integrated form.
Contents of the exposure scenario have been included (if applicable) into sections 1.2, 8, 9, 12, 15 and 16 of this safety data sheet. The downstream user has to check whether his uses are covered by the integrated ES information in this safety data sheet.

Accord européen relatif au transport international des marchandises Dangereuses par Route ADNR: Accord européen relatif au transport international des marchandises Dangereuses par la Rhin AGW: Arbeitsplatzgrenswerte (GE) ATEmix: Acute toxicity estimate of the mixture CLP: Classification, Labelling and Packaging of substances and mixtures Carcinoge CMR: DNEL: Derived No Effect Level Effective Concentration 0% ECO: Effective Concentration 5% EC5: EC10: Effective Concentration 10% Median Effective Concentration EC50: EC100: Effective Concentration 100% EH40 WEL: Workplace Exposure Limit (UK) International Air Transport Association IATA: ICAO: International Civil Aviation Organization IC50: inhibitory concentration 50% IMDG: International Maritime Dangerous Goods International Maritime Organization IMO: International Uniform ChemicaL Information Database IUCLID: LC50: Lethal Concentration 50% LC100: Lethal Concentration 100% Lowest Observed Adverse Effect Level LOAEL: LDL0 Lethal Dose (minimum found to be lethal) LD50: Lethal Dose 50% MAC: Maximaal Aanvaardbare Concentratie (NL) Maximale Arbeitsplatz-Konzentration MAK: No Observed Adverse Effect Level NOAEL: NOEL: No Observed Effect Level NOEC: No Observed Effect Concentration OEL: Occupatianal Exposure Limit PBT: Persistent, Bioaccumulative and Toxic substance PNEC: Predicted No Effect Concentration **REACH:** Registration, Evaluation, Authorisation and Restriction of Chemicals RID: Regulations concerning the International Transport of Dangerous Goods by Rail Short Term Exposure Limit STEL: TLV: Treshold Limit Value **TRGS900:** Arbeitsplatzgrenswerte (GE) Time Weighted Average TWA: VOC: Volatile Organic Compound

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vPvB:

very Persistent and very Bioaccumulative substance