

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

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

1.1 Product identifier Product name: ARKANA DEVELOPER

Product No.: 000001014667

1.2 Relevant identified uses of the substance or mixture and uses advised against Identified uses: Photographic developer solution Uses advised against: Reserved for industrial and professional use.

1.3 Details of the supplier of the safety data sheet

Manufacturer Agfa Graphics NV Septestraat 27 2640 Mortsel

Belgium

Telephone: +32 3 4442111 **Fax:** +32 3 4447094

E-mail: electronic.sds@agfa.com National Supplier Agfa-Gevaert Ltd. Vantage West Great West Road Brentford, Middlesex TW8 9AX United Kingdom

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1.4 Emergency telephone number:

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified according to the legislation in force.

Classification according to Regulation (EC) No 1272/2008 as amended.

Physical Hazards		
Corrosive to metals Health Hazards	Category 1	H290: May be corrosive to metals.
Skin corrosion	Category 1A	H314: Causes severe skin burns and eye damage.
Serious eye damage	Category 1	H318: Causes serious eye damage.

2.2 Label Elements

Contains:

sodium hydroxide



	Poly(oxy-1,2-ethanediyl), α-isotridecyl-ω-hydroxy-, phosphate
Signal Word:	Danger
Hazard Statement(s):	H314: Causes severe skin burns and eye damage. H290: May be corrosive to metals.
Precautionary Statement Prevention:	ts P280: Wear protective gloves/protective clothing/eye protection/face protection.
Response:	 P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor/ P330: Rinse mouth. P331: Do NOT induce vomiting. P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P310: Immediately call a POISON CENTER/doctor/ P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P390: Absorb spillage to prevent material damage.
2.3 Other hazards	Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria Not fulfilling vPvB (very persistent/very bioaccummulative) criteria

SECTION 3: Composition/information on ingredients

3.2 Mixtures

General information:

No data available.

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
Sodium octanoate	1 - <5%	1984-06-1	217-850-5	No data available.	No data available.	
sodium hydroxide	2 - <3%	1310-73-2	215-185-5	01- 2119457892- 27-XXXX	No data available.	#
Poly(oxy-1,2- ethanediyl), α- isotridecyl-ω- hydroxy-, phosphate	1 - <2.5%	73038-25-2		No data available.	No data available.	

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

This substance has workplace exposure limit(s).

Classification

Chemical name	Classification	Notes
Sodium octanoate	Eye Irrit.: 2: H319 Skin Irrit.: 2: H315 STOT SE: 3: H335	



sodium hydroxide	Skin Corr.: 1A: H314	No data available.
Poly(oxy-1,2-ethanediyl), α-isotridecyl-ω-hydroxy-, phosphate	Skin Irrit.: 2: H315 Eye Dam.: 1: H318 Aquatic Chronic: 2: H411	

The full text for all H-statements is displayed in section 16.

CLP: Regulation No. 1272/2008.

SECTION 4: First aid measure	25		
General:	Get medical attention if symptoms occur. CAUTION! First aid personnel must be aware of own risk during rescue!		
4.1 Description of first aid meas	sures		
Inhalation:	Call a physician or poison control center immediately. If breathing stops, provide artificial respiration. Move to fresh air. If breathing is difficult, give oxygen.		
Skin Contact:	Remove contaminated clothing and wash the skin thoroughly with soap and water after work. Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash contaminated clothing before reuse.		
Eye contact:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Call a physician or poison control center immediately.		
Ingestion:	Call a physician or poison control center immediately. Rinse mouth. Never give liquid to an unconscious person. Do not induce vomiting without advice from poison control center.		
4.2 Most important symptoms and effects, both acute and delayed:	See section 11 of the SDS for additional information on health hazards.		
4.2 Indication of any immediate	medical attention and anapial treatment needed		
4.3 Indication of any immediate Hazards:	medical attention and special treatment needed See section 11 of the SDS for additional information on health hazards.		
Treatment:	Get medical attention if symptoms occur.		
SECTION 5: Firefighting meas	SECTION 5: Firefighting measures		
General Fire Hazards:	No unusual fire or explosion hazards noted.		
5.1 Extinguishing media Suitable extinguishing media:	Extinguish with foam, carbon dioxide, dry powder or water fog.		
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.		
5.2 Special hazards arising from the substance or	During fire, gases hazardous to health may be formed.		

5.3 Advice for firefighters Special fire fighting procedures: No data available.

mixture:



Special protective	Self-contained breathing apparatus and full protective clothing must be
equipment for fire-fighters:	worn in case of fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:	See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.
6.2 Environmental Precautions:	Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.
6.3 Methods and material for containment and cleaning up:	Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Dike far ahead of larger spill for later recovery and disposal.
6.4 Reference to other sections:	See Section 8 of the SDS for Personal Protective Equipment. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling:	Do not get in eyes. Wash hands thoroughly after handling. Do not get in eyes, on skin, on clothing.
7.2 Conditions for safe storage, including any incompatibilities:	Store in a corrosion-resistant/ container with a resistant inner liner. Store locked up.
7.3 Specific end use(s):	Reserved for industrial and professional use.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

Chemical name	Туре	Exposure Limit Values	Source
sodium hydroxide	STEL	2 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
Chemical name	Туре	Exposure Limit Values	Source

DNEL-Values

Critical component	Туре	Route of Exposure	Health Warnings	Remarks
sodium hydroxide	Workers	Inhalation	Local, long-term; 1 mg/m3	Irritating to respiratory system.
	General population	Inhalation	Local, long-term; 1 mg/m3	Irritating to respiratory system.

8.2 Exposure controls

Appropriate Engineering Provide adequate ventilation. Controls:

Individual protection measures, such as personal protective equipment



General information:	Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Follow training instructions when handling this material.
Eye/face protection:	Safety goggles. EN 166.
Skin protection Hand Protection:	Protective gloves should be used if there is a risk of direct contact or splash.(EN374) Chemical resistant gloves required for prolonged or repeated contact. Butyl rubber. Glove thickness: > 0.70 mm Break-through time: > 480 min Risk of splashes: Nitrile rubber. Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.
Other:	Safety clothes : long sleeved clothing EN13688
Respiratory Protection:	In case of inadequate ventilation use suitable respirator (EN14387). Seek advice from local supervisor.
Hygiene measures:	Do not get in eyes. Observe good industrial hygiene practices. Wash contaminated clothing before reuse. Do not get this material in contact with skin. Wash hands before breaks and immediately after handling the product.
Environmental Controls:	Do not empty into drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:liquidForm:No data available.Color:No data available.Odor:No data available.Odor Threshold:No data available.pH:13.0Freezing point:No data available.Boiling Point:> 100 °CFlash Point:> 93.33 °C Not combustible.Evaporation Rate:No data available.Flammability (solid, gas):Noncombustible LiquidFlammability Limit - Upper (%):No data available.Flammability Limit - Lower (%):No data available.Vapor pressure:No data available.Vapor density (air=1):No data available.Density:No data available.Relative density:1.037Solubility(ies)No data available.Solubility (other):No data available.SOLS_GB - 00001014667No	Appearance	
Color:No data available.Odor:No data available.Odor Threshold:No data available.pH:13.0Freezing point:No data available.Boiling Point:> 100 °CFlash Point:> 93.33 °C Not combustible.Evaporation Rate:No data available.Flammability (solid, gas):Noncombustible LiquidFlammability Limit - Upper (%):No data available.Flammability Limit - Lower (%):No data available.Vapor pressure:No data available.Vapor density (air=1):No data available.Density:No data available.Relative density:1.037Solubility(ies)No data available.Solubility in Water:No data available.No data available.No data available.	Physical state:	liquid
Odor:No data available.Odor Threshold:No data available.pH:13.0Freezing point:No data available.Boiling Point:> 100 °CFlash Point:> 93.33 °C Not combustible.Evaporation Rate:No data available.Flammability (solid, gas):Noncombustible LiquidFlammability Limit - Upper (%):No data available.Flammability Limit - Lower (%):No data available.Vapor pressure:No data available.Vapor density (air=1):No data available.Density:No data available.Relative density:1.037Solubility (ies)No data available.Solubility in Water:No data available.No data available.No data available.	Form:	No data available.
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Solubility(ies)No data available.Solubility in Water:No data available.Solubility (other):No data available.	Density:	No data available.
Solubility in Water:No data available.Solubility (other):No data available.	Relative density:	1.037
Solubility (other): No data available.	Solubility(ies)	
	Solubility in Water:	No data available.
SDS_GB - 000001014667	Solubility (other):	No data available.
	SDS_GB - 000001014667	



Partition coefficient (n-octanol/water):	No data available.
Autoignition Temperature:	not applicable
Decomposition Temperature:	No data available.
SADT:	No data available.
Viscosity:	No data available.
Explosive properties:	No data available.
Oxidizing properties:	No data available.
9.2 Other information	
VOC Content:	EC Directive 1999/13: 0 g/l ~0 % (calculated) EC Directive 2004/42: 23 g/l ~2.3 % (calculated)

SECTION 10: Stability and reactivity	
10.1 Reactivity:	Material is stable under normal conditions.
10.2 Chemical Stability:	Material is stable under normal conditions.
10.3 Possibility of hazardous reactions:	Not known.
10.4 Conditions to avoid:	Avoid heat or contamination.
10.5 Incompatible Materials:	Reacts violently with strong acids.
10.6 Hazardous Decomposition Products:	By heating and fire, harmful vapors/gases may be formed.

SECTION 11: Toxicological information

General information:	Skin: Corrosive, redness and pain, burns, blisters. Eyes: Corrosive, lacrimation, impaired vision, severe burns.
Information on likely routes Inhalation:	of exposure Inhalation is the primary route of exposure. In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.
Skin Contact:	Causes severe skin burns.
Eye contact:	Causes serious eye damage.
Ingestion:	May be ingested by accident. Ingestion may cause irritation and malaise.

11.1 Information on toxicological effects

Acute toxicity

Oral Product:	Not classified for acute toxicity based on available data.
Specified substance(s)	
Sodium octanoate	No data available.
sodium hydroxide	No data available.
Poly(oxy-1,2-ethanediyl), α-isotridecyl-ω-hydroxy-, phosphate	No data available.

Dermal



Product: Specified substance(s) Sodium octanoate sodium hydroxide Poly(oxy-1,2- ethanediyl), α- isotridecyl-ω-hydroxy-, phosphate	Not classified for acute toxicity based on available data. No data available. No data available. No data available.
Inhalation Product:	Not classified for acute toxicity based on available data.
Specified substance(s) Sodium octanoate sodium hydroxide Poly(oxy-1,2-ethanediyl), α-isotridecyl-ω-hydroxy-, phosphate	No data available. No data available. No data available.
Repeated dose toxicity Product: Specified substance(s) Sodium octanoate sodium hydroxide Poly(oxy-1,2-ethanediyl), α-isotridecyl-ω-hydroxy-, phosphate	No data available. No data available. No data available. No data available.
Skin Corrosion/Irritation: Product:	No data available.
Specified substance(s) Sodium octanoate sodium hydroxide Poly(oxy-1,2- ethanediyl), α- isotridecyl-ω-hydroxy-, phosphate	No data available. No data available. No data available.
Serious Eye Damage/Eye Irritation:	
Product: Specified substance(s) Sodium octanoate sodium hydroxide Poly(oxy-1,2- ethanediyl), α- isotridecyl-ω-hydroxy-, phosphate	No data available. No data available. Corrosive No data available.
Respiratory or Skin Sensitization: Product:	No data available.
Specified substance(s) Sodium octanoate sodium hydroxide Poly(oxy-1,2- ethanediyl), α- isotridecyl-ω-hydroxy-, phosphate	No data available. No data available. No data available.



Germ Cell Mutagenicity

In vitro Product:	No data available.
Specified substance(s) Sodium octanoate sodium hydroxide Poly(oxy-1,2-ethanediyl), α-isotridecyl-ω-hydroxy-, phosphate	No data available. No data available. No data available.
In vivo Product:	No data available.
Specified substance(s) Sodium octanoate sodium hydroxide Poly(oxy-1,2-ethanediyl), α-isotridecyl-ω-hydroxy-, phosphate	No data available. No data available. No data available.
Carcinogenicity Product:	No data available.
Specified substance(s) Sodium octanoate sodium hydroxide Poly(oxy-1,2-ethanediyl), α-isotridecyl-ω-hydroxy-, phosphate	No data available. No data available. No data available.
Reproductive toxicity Product:	No data available.
Specified substance(s) Sodium octanoate sodium hydroxide Poly(oxy-1,2-ethanediyl), α-isotridecyl-ω-hydroxy-, phosphate	No data available. No data available. No data available.
Specific Target Organ Toxicit Product:	y - Single Exposure No data available.
Specified substance(s) Sodium octanoate sodium hydroxide Poly(oxy-1,2-ethanediyl), α-isotridecyl-ω-hydroxy-, phosphate	No data available. No data available. No data available.
Specific Target Organ Toxicit Product:	y - Repeated Exposure No data available.
Specified substance(s) Sodium octanoate sodium hydroxide	No data available. No data available.



Poly(oxy-1,2-ethanediyl),	No data available.
α-isotridecyl-ω-hydroxy-,	
phosphate	

Aspiration Hazard Product:	No data available.
Specified substance(s) Sodium octanoate sodium hydroxide Poly(oxy-1,2-ethanediyl), α-isotridecyl-ω-hydroxy-, phosphate	No data available. No data available. No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Fish Product:	No data available.
Specified substance(s) Sodium octanoate sodium hydroxide Poly(oxy-1,2-ethanediyl), α-isotridecyl-ω-hydroxy-, phosphate	No data available. LC 50 (Leuciscus idus, 48 h): 189 mg/l experimental result LC 50 (Zebra danio (Danio rerio), 96 h): 10 - 100 mg/l
Aquatic Invertebrates Product:	No data available.
Specified substance(s) Sodium octanoate sodium hydroxide Poly(oxy-1,2-ethanediyl), α-isotridecyl-ω-hydroxy-, phosphate	No data available. LC 50 (48 h): 30 - 100 mg/l experimental result No data available.
Chronic Toxicity	
Fish Product:	No data available.
Specified substance(s) Sodium octanoate sodium hydroxide Poly(oxy-1,2-ethanediyl), α-isotridecyl-ω-hydroxy-, phosphate	No data available. No data available. No data available.
Aquatic Invertebrates Product:	No data available.
Specified substance(s) Sodium octanoate sodium hydroxide Poly(oxy-1,2-ethanediyl), α-isotridecyl-ω-hydroxy-,	No data available. No data available. No data available.



phosphate

Toxicity to Aquatic Plants Product:	No data available.
Specified substance(s) Sodium octanoate sodium hydroxide Poly(oxy-1,2-ethanediyl), α-isotridecyl-ω-hydroxy-, phosphate	No data available. No data available. No data available.
12.2 Persistence and Degradabili	ity
Biodegradation Product:	No data available.
Specified substance(s) Sodium octanoate sodium hydroxide Poly(oxy-1,2-ethanediyl), α-isotridecyl-ω-hydroxy-, phosphate	No data available. No data available. No data available.
BOD/COD Ratio Product	No data available.
Specified substance(s) Sodium octanoate sodium hydroxide Poly(oxy-1,2-ethanediyl), α-isotridecyl-ω-hydroxy-, phosphate	No data available. No data available. No data available.
12.3 Bioaccumulative potential Product:	No data available.
Specified substance(s) Sodium octanoate sodium hydroxide Poly(oxy-1,2-ethanediyl), α-isotridecyl-ω-hydroxy-, phosphate	No data available. No data available. No data available.
12.4 Mobility in soil: Known or predicted distribu Sodium octanoate sodium hydroxide Poly(oxy-1,2-ethanediyl), α- isotridecyl-ω-hydroxy-, phosphate	No data available. tion to environmental compartments No data available. No data available. No data available.
12.5 Results of PBT and vPvB assessment: Sodium octanoate sodium hydroxide Poly(oxy-1,2- ethanediyl), α- isotridecyl-ω- hydroxy-, phosphate	Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria Not fulfilling vPvB (very persistent/very bioaccummulative) criteria No data available. No data available. No data available.



12.6 Other adverse effects:	No data available.
12.7 Additional Information:	No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information:	Disposal considerations (including disposal of contaminated containers or packaging) Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Disposal methods:	Discharge, treatment, or disposal may be subject to national, state, or local laws.
	Since emptied containers retain product residue, follow label warnings even after container is emptied.

SECTION 14: Transport information

ADR				
14.1 UN Number:	UN 1824			
14.2 UN Proper Shipping Name:	SODIUM HYDROXIDE SOLUTION			
14.3 Transport Hazard Class(es)				
Class:	8			
Label(s):	8			
Hazard No. (ADR):	80			
Tunnel restriction code:	(E)			
14.4 Packing Group:	II			
Limited quantity	1.00L			
Excepted quantity	E2			
14.5 Environmental Hazards:	No			
14.6 Special precautions for user:	-			
RID				
14.1 UN Number:	UN 1824			
14.2 UN Proper Shipping Name	SODIUM HYDROXIDE SOLUTION			
14.3 Transport Hazard Class(es)				
Class:	8			
Label(s):	8			
14.4 Packing Group:	II			
14.5 Environmental Hazards:	No			
14.6 Special precautions for user:	-			
IMDG 14.1 UN Number:	UN 1824			
14.2 UN Proper Shipping Name:	SODIUM HYDROXIDE SOLUTION			
14.3 Transport Hazard Class(es) Class:	8			
	8			
Label(s): EmS No.:	о F-A, S-B			
	г-А, 3-Б II			
14.4 Packing Group: Limited quantity	1.00L			
	1.002			



Excepted quantity 14.5 Environmental Hazards: 14.6 Special precautions for user:	E2 Not regulated. –
ΙΑΤΑ	
14.1 UN Number:	UN 1824
14.2 Proper Shipping Name:	Sodium hydroxide solution
14.3 Transport Hazard Class(es):	
Class:	8
Label(s):	8
14.4 Packing Group:	II
Limited quantity	0.50L
Excepted quantity	E2
14.5 Environmental Hazards:	No
14.6 Special precautions for user:	_
Other information	
Passenger and cargo aircraft:	Allowed.
Cargo aircraft only:	Allowed.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: not applicable.

SECTION 15: Regulatory information

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

EU Regulations

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 850/2004 on persistent organic pollutants: none

Regulation (EC) No. 689/2008 Import and export of dangerous chemicals: none

EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC): none

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use: none

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.: none

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.: none

Directive 96/82/EC (Seveso III): on the control of major accident hazards involving dangerous substances: none

EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants: none

Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:

Chemical name	CAS-No.	Concentration
sodium hydroxide	1310-73-2	1.0 - 10%



15.2 Chemical safety assessment:	No Chemical Safety Assessment has been carried out.			
SECTION 16: Other information				
Revision Information:	Not relevant.			
References PBT vPvB	PBT: persistent, bioaccumulative and toxic substance. vPvB: very persistent and very bioaccumulative substance.			
Key literature references and sources for data:	Safety Data Sheet from the supplier. ECHA			
Wording of the H-statements i	n section 2 and 3			
H314	Causes severe skin burns and eye damage.			
H315	Causes skin irritation.			
H318	Causes serious eye damage.			
H319 H335	Causes serious eye irritation. May cause respiratory irritation.			
H355 H411	Toxic to aquatic life with long lasting effects.			
Training information:	No data available.			
Classification according to Regulation (EC) No 1272/2008 as amended.				
Met. Corr. 1, H290 c	alculated			
Skin Corr. 1A, H314 c	alculated			
Eye Dam. 1, H318	alculated			
Issue Date: SDS No.:	07.08.2017			
Disclaimer:	This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.			