

SAFETY DATA SHEET

In accordance with Regulation (EC) No. 1907/2006

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

1.1. Product identifier			
Trade name or designation of the mixture	KODAK Fixer		
Registration number	-		
Synonyms	None.		
SDS number	PCD 6010		
Product code	1058304		
Issue date	07-May-2019		
Version number	02		
Revision date	18-June-2019		
Supersedes date	07-May-2019		
1.2. Relevant identified uses of	1.2. Relevant identified uses of the substance or mixture and uses advised against		
Identified uses	Photographic processing chemical. (fixer).		
Uses advised against	For industrial use only.		
1.3. Details of the supplier of the	e safety data sheet		
Supplier	Kodak Alaris Limited		
Address	Hemel One, Boundary Way		
	Hemel Hempstead		
	Hertfordshire, HP2 7YU		
	United Kingdom		
Telephone number	+44 (0)330 123 0391		
e-mail	EHS-Questions@Kodakalaris.com		
1.4. Emergency telephone number	UK: Tel 111 or 344 892 0111 (NHS professionals only)		
	Ireland: Members of Public: 01 809 2166. (8.00 a.m. to 10.00 p.m. 7 days a week)		
	Ireland: Healthcare Professionals: 01 809 2566 (24 hour service)		

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

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

Health hazards		
Skin corrosion/irritation	Category 2	H315 - Causes skin irritation.
Serious eye damage/eye irritation	Category 1	H318 - Causes serious eye damage.

Hazard summary

Causes serious eye damage. Causes skin irritation. May form combustible dust concentrations in air. Occupational exposure to the substance or mixture may cause adverse health effects.

2.2. Label elements

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

Contains: Ammonium alum, dodecahydrate, Sodium metabisulphite



Hazard pictograms

Causes skin irritation. Causes serious eye damage.

Precautionary statements Prevention

P260 P264 P280 P280	Do not breathe dust. Wash thoroughly after handling. Wear eye protection/face protection. Wear protective gloves.
Response	
P302 + P352	IF ON SKIN: Wash with plenty of 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.
P310	Immediately call a POISON CENTRE/doctor.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
Storage	Not available.
Disposal	Not available.
Supplemental label information	EUH031 - Contact with acids liberates toxic gas.
2.3. Other hazards	Not a PBT or vPvB substance or mixture.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name		%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Ammonium alum, dodec	ahydrate	10 - 15	7784-26-1 232-055-3	-	-	
Classification:	Aquatic Chr	onic 3;H412	2			
Sodium metabisulphite		5 - 10	7681-57-4 231-673-0	-	016-063-00-2	
Classification:	Acute Tox.	4;H302, Eye	e Dam. 1;H318			
Sodium tetraborate		0.1 - 1	1330-43-4 215-540-4	-	005-011-00-4	
Classification:	Acute Tox.	4;H312, Acı	ute Tox. 1;H330, Rep	or. 1B;H360D, Repr. 1B;H36	0F	

List of abbreviations and symbols that may be used above

#: This substance has been assigned Union workplace exposure limit(s).

M: M-factor

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

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

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

Composition comments

SECTION 4: First aid measures

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. 4.1. Description of first aid measures Inhalation Move to fresh air. Call a physician if symptoms develop or persist. Skin contact Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse. Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove Eve contact contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately. Rinse mouth. Get medical attention if symptoms occur. Ingestion 4.2. Most important symptoms Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred and effects, both acute and vision. Permanent eye damage including blindness could result. Dusts may irritate the respiratory tract, skin and eyes. Skin irritation. May cause redness and pain. delayed 4.3. Indication of any Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed. immediate medical attention

SECTION 5: Firefighting measures

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General fire hazards	Dusts may form an explosive mixture with air.
5.1. Extinguishing media Suitable extinguishing media	Water spray. Carbon dioxide (CO2). Dry chemicals. Flush with plenty of water.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

Material name: KODAK Fixer

and special treatment needed

1058304 Version #: 02 Revision date: 18-June-2019 Issue date: 07-May-2019

5.2. Special hazards arising from the substance or mixture	During fire, gases hazardous to health may be formed. Carbon oxides. Nitrogen oxides (NOx). Sulphur oxides.
5.3 Advice for firefighters	

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Special protective equipment for firefighters	Wear self-contained breathing apparatus and protective clothing. Fire or excessive heat may produce hazardous decomposition products.
Special fire fighting procedures	Use water spray to cool unopened containers.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
For emergency responders	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.
6.2. Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
6.3. Methods and material for containment and cleaning up	Avoid the generation of dusts during clean-up. Collect dust using a vacuum cleaner equipped with HEPA filter. Stop the flow of material, if this is without risk.
	Large Spills: Wet down with water and dike for later disposal. Absorb in vermiculite, dry sand or earth and place into containers. Shovel the material into waste container. Following product recovery, flush area with water.
	Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
6.4. Reference to other sections	For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.
SECTION 7: Handling and	storage

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7.1. Precautions for safe handling	Minimise dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust. Do not get this material in contact with eyes. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
7.2. Conditions for safe storage, including any incompatibilities	Store in tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).
7.3. Specific end use(s)	Photographic processing chemical.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

UK. EH40 Workplace Exposure Limits (WELs)

Components	Туре	Value	
Ammonium alum, dodecahydrate (CAS 7784-26-1)	TWA	2 mg/m3	
Boric anhydride (CAS 1303-86-2)	STEL	20 mg/m3	
	TWA	10 mg/m3	
Sodium metabisulphite (CAS 7681-57-4)	TWA	5 mg/m3	
Sodium tetraborate (CAS 1330-43-4)	TWA	1 mg/m3	
Biological limit values	No biological exposure limits noted for the ingredient(s).		
Recommended monitoring procedures	Follow standard monitoring procedures.		
Derived no effect levels DNELs)	Not available.		

Predicted no effect concentrations (PNECs)	Not available.		
8.2. Exposure controls			
Appropriate engineering controls	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. If engineering measures are not sufficient to maintain concentrations of dust particulates below the OEL (occupational exposure limit), suitable respiratory protection must be worn. If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits. Provide eyewash station and safety shower.		
Individual protection measures, s	such as personal protective equipment		
General information	Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.		
Eye/face protection	Wear safety glasses with side shields (or goggles) and a face shield.		
Skin protection			
- Hand protection	Using the information provided in Section 2, seek the advice of the glove supplier as to the most suitable glove material. Avoid skin contact when mixing or handling the substance/preparation or a mixture by wearing impervious gloves and protective clothing appropriate to the risk of exposure.		
	Use chemical resistant gloves. In case of prolonged immersion or frequently repeated contact:		
	Material: Nitrile rubber, Thickness: >=0.38 mm, Breakthrough time: > 480 min Material: Neoprene, Thickness: > = 0.65 mm, Breakthrough time: > 240 min Material: butyl-rubber, Thickness: >=0.36 mm, Breakthrough time: > 480 min		
	Avoid natural rubber gloves.		
	The protective gloves to be used must comply with the specifications of the EC directive 89/686/EEC 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.		
- Other	Wear appropriate chemical resistant clothing.		
Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.		
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.		
Hygiene measures	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.		
Environmental exposure controls	Environmental manager must be informed of all major releases.		

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	
Physical state	Solid.
Form	Powder.
Colour	White
Odour	odorless
Odour threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.

Flammability limit - upper (%)	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Appreciable.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
9.2. Other information	No relevant additional information available.
SECTION 10: Stability and	I reactivity

10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	Hazardous polymerisation does not occur.
10.4. Conditions to avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials.
10.5. Incompatible materials	Strong oxidising agents. Acids. Halogenated materials. Strong bases. Sodium hypochlorite (bleach). Contact with base liberates flammable material. Contact with base liberates ammonia. Contact with strong acids may liberate sulphur dioxide. Contact with sodium hypochlorite (bleach) may form chloramine (toxic gas).
10.6. Hazardous decomposition products	Carbon oxides. Sulphur oxides. Nitrogen oxides (NOx). Ammonia. Chloramine.

SECTION 11: Toxicological information

General information	Occupational exposure to the substance or mixture may cause adverse effects.
Information on likely routes of e	exposure
Inhalation	Expected to be a low hazard for recommended handling. In contact with strong acids or if heated, sulphites may liberate sulphur dioxide gas. Sulphur dioxide gas is irritating to the respiratory tract. Some asthmatics or hypersensitive individuals may experience difficulty breathing.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye damage.
Ingestion	Expected to be a low ingestion hazard. May cause irritation of the gastrointestinal tract. Some asthmatics or sulfite-sensitive individuals may experience wheezing, chest tightness, stomach upset, hives, faintness, weakness and diarrhea.
Symptoms	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Dusts may irritate the respiratory tract, skin and eyes. Skin irritation. May cause redness and pain.

11.1. Information on toxicological effects

Acute toxicity

Components	Species	Test Results
Sodium tetraborate (CAS 1330-	43-4)	
Acute		
Dermal		
LD50	Rabbit	> 1055 mg/kg
Inhalation		
LC50	Rat	> 0.002 mg/l, 4 Hours
Oral		
LD50	Rat	2660 mg/kg
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye irritation	Causes serious eye damage.	

Respiratory sensitisation	Based on available data, the classification criteria are n	
Skin sensitisation	Based on available data, the classification criteria are not met.	
Germ cell mutagenicity	Based on available data, the classification criteria are not met.	
Carcinogenicity	Based on available data, the classification criteria are n	ot met.
	Evaluation of Carcinogenicity	
Sodium metabisulphite (Based on available data, the classification criteria are n	carcinogenicity to humans.
Reproductive toxicity	Not classified.	or mer.
Specific target organ toxicity - single exposure		
Specific target organ toxicity - repeated exposure	Based on available data, the classification criteria are n	ot met.
Aspiration hazard	Based on available data, the classification criteria are n	ot met.
Mixture versus substance information	No information available.	
Other information	Not available.	
SECTION 12: Ecological in	nformation	
12.1. Toxicity	Based on available data, the classification criteria are n environment, long term.	ot met for hazardous to the aquatic
Components	Species	Test Results
Ammonium alum, dodecahydrate		
Aquatic		
Crustacea	EC50 Water flea (Daphnia magna)	45.8 - 73.31 mg/l, 48 hours
Sodium tetraborate (CAS 1330-43	3-4)	
Aquatic		
Fish	LC50 Western mosquitofish (Gambusia affinis	 i) 104 mg/l, 96 hours
12.2. Persistence and degradability	Not readily biodegradable.	
12.3. Bioaccumulative potential	No data available.	
Partition coefficient	Not available.	
n-octanol/water (log Kow)		
	Not available.	
n-octanol/water (log Kow)	Not available. No data available.	
n-octanol/water (log Kow) Bioconcentration factor (BCF)		
n-octanol/water (log Kow) Bioconcentration factor (BCF) 12.4. Mobility in soil 12.5. Results of PBT and vPvB	No data available.	
n-octanol/water (log Kow) Bioconcentration factor (BCF) 12.4. Mobility in soil 12.5. Results of PBT and vPvB assessment 12.6. Other adverse effects	No data available. Not a PBT or vPvB substance or mixture. No other adverse environmental effects (e.g. ozone deg potential, endocrine disruption, global warming potentia	
n-octanol/water (log Kow) Bioconcentration factor (BCF) 12.4. Mobility in soil 12.5. Results of PBT and vPvB assessment 12.6. Other adverse effects SECTION 13: Disposal co	No data available. Not a PBT or vPvB substance or mixture. No other adverse environmental effects (e.g. ozone deg potential, endocrine disruption, global warming potentia	
n-octanol/water (log Kow) Bioconcentration factor (BCF) 12.4. Mobility in soil 12.5. Results of PBT and vPvB assessment 12.6. Other adverse effects	No data available. Not a PBT or vPvB substance or mixture. No other adverse environmental effects (e.g. ozone deg potential, endocrine disruption, global warming potentia	 I) are expected from this component. ct treatment and disposal of product,
n-octanol/water (log Kow) Bioconcentration factor (BCF) 12.4. Mobility in soil 12.5. Results of PBT and vPvB assessment 12.6. Other adverse effects SECTION 13: Disposal co 13.1. Waste treatment methods	No data available. Not a PBT or vPvB substance or mixture. No other adverse environmental effects (e.g. ozone dep potential, endocrine disruption, global warming potentia nsiderations This information is provided to assist users in the correct	 I) are expected from this component. I) are expected from this component. I) treatment and disposal of product, used to Kodak Alaris specifications. Ibe consigned for disposal as hazardous 17* Photochemicals. Dispose of product national/international regulations. It the times with water, waste product roous waste with the European Waste
n-octanol/water (log Kow) Bioconcentration factor (BCF) 12.4. Mobility in soil 12.5. Results of PBT and vPvB assessment 12.6. Other adverse effects SECTION 13: Disposal co 13.1. Waste treatment methods Residual waste	No data available. Not a PBT or vPvB substance or mixture. No other adverse environmental effects (e.g. ozone deg potential, endocrine disruption, global warming potentia nsiderations This information is provided to assist users in the correct product packaging and working solutions prepared and Waste product and waste working solution should both waste with the European Waste Catalogue Code 20 01 and working solution in accordance with local/regional/ If thoroughly cleaned, preferably by rinsing at least thre packaging may be consigned for recovery as non-haza Catalog 15 01 06 Mixed Packaging. Whenever possible make up the working solution. All other waste product packaging contaminated by pro hazardous waste with the European Waste Catalogue C residues of or contaminated by hazardous substances. Product and working solution: 20 01 17* Photochemical	 I) are expected from this component. I) treatment and disposal of product, used to Kodak Alaris specifications. I) be consigned for disposal as hazardous 17* Photochemicals. Dispose of product national/international regulations. I) treatment and the treatment of treatment of the treatment of the treatment of treatment
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n-octanol/water (log Kow) Bioconcentration factor (BCF) 12.4. Mobility in soil 12.5. Results of PBT and vPvB assessment 12.6. Other adverse effects SECTION 13: Disposal co 13.1. Waste treatment methods Residual waste Contaminated packaging	No data available. Not a PBT or vPvB substance or mixture. No other adverse environmental effects (e.g. ozone dep potential, endocrine disruption, global warming potential nsiderations This information is provided to assist users in the correct product packaging and working solutions prepared and Waste product and waste working solution should both waste with the European Waste Catalogue Code 20 01 and working solution in accordance with local/regional/ If thoroughly cleaned, preferably by rinsing at least thre packaging may be consigned for recovery as non-haza Catalog 15 01 06 Mixed Packaging. Whenever possible make up the working solution. All other waste product packaging contaminated by pro hazardous waste with the European Waste Catalogue C residues of or contaminated by hazardous substances. Product and working solution: 20 01 17* Photochemical 10 Packaging containing residues of or contaminated b cleaned product packaging: 15 01 02 Plastic Packaging	 I) are expected from this component. I) are expected from this component. I) treatment and disposal of product, used to Kodak Alaris specifications. be consigned for disposal as hazardous 17* Photochemicals. Dispose of product national/international regulations. e times with water, waste product rdous waste with the European Waste e, minimize waste by using rinsing water to duct should be consigned for disposal as Code 15 01 10 Packaging containing ls. Contaminated product packaging: 15 01 y hazardous substances. Thoroughly J.

SECTION 14: Transport information

ADR

14.1. - 14.6.: Not regulated as dangerous goods.

14.1. - 14.6.: Not regulated as dangerous goods.

IMDG

14.1. - 14.6.: Not regulated as dangerous goods.

14.7. Transport in bulkNot applicable.according to Annex II ofMARPOL 73/78 and the IBCCode

SECTION 15: Regulatory information

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

EU regulations

- Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended Not listed.
- Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended Not listed.
- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended Not listed.
- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended Not listed.
- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended Not listed.
- Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.
- Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended Not listed.
- Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Sodium tetraborate (CAS 1330-43-4)

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

- Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended Ammonium alum, dodecahydrate (CAS 7784-26-1)
 - Sodium tetraborate (CAS 1330-43-4)
- Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

Other EU regulations

Directive 2012/18/EU on	major accident hazards involving dangerous substances, as amended
Not listed.	
Other regulations	The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.
National regulations	Follow national regulation on the protection of workers from the risks of exposure to carcinogens and mutagens at work, in accordance with Directive 2004/37/EC.
15.2. Chemical safety assessment	No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of appreviations	List of	abbreviations	
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IARC Monographs. Overall Evaluation of Carcinogenicity
CAS: Chemical Abstract Service.
PBT: Persistent, bioaccumulative, toxic.
vPvB: very Persistent, very Bioaccumulative.
DNEL: Derived No Effect Level.
PNEC: Predicted No Effect Concentration.
TWA: Time Weighted Average.

References	STEL: Short-term Exposure Limit. LD50: Lethal Dose 50%. LC50: Lethal Concentration 50%. EC50: Effective Concentration 50%. Not available.
Information on evaluation method leading to the classification of mixture	The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.
Full text of any H-statements not written out in full under	
Sections 2 to 15	H302 Harmful if swallowed. H312 Harmful in contact with skin. H318 Causes serious eye damage. H330 Fatal if inhaled. H360D May damage the unborn child. H360F May damage fertility. H412 Harmful to aquatic life with long lasting effects.
Revision information	None.
Training information	Follow training instructions when handling this material.
Disclaimer	Kodak Alaris cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.