

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 23.07.2015

Print Date: 29.07.2016

Z17000000341/Version: 5.0

Page: 1/15



## 1. Identification of the substance/mixture and of the company/undertaking

**1.1. Product identifier:** Aqua-Image Plate Cleaner/Preserver

**Product code:** 8333635

**Synonyms:** 3855

**1.2. Relevant identified uses of the substance or mixture and uses advised against:**

**1.2.1. Identified uses:** photographic processing chemical. For industrial use only.

**1.3. Details of the supplier of the safety data sheet:** KODAK LIMITED, Building 8, Croxley Green Business Park, Hatters Lane, Watford, WD18 8PX, Great Britain

For further information about this product, telephone 0870-2430270 or email kes@kodak.com.

**1.4. Emergency telephone number:**

IN EMERGENCY, telephone: 844 892 0111. Available during office hours only.

## 2. Hazards identification

### 2.1. Classification of the substance or mixture

**Classification according to EU Directives 1272/2008/EC [CLP/GHS]:**

Hazard class / Hazard category	Hazard statements	Route of exposure
Flam. Liq. 3	H226	--
Skin Irrit. 2	H315	--
Eye Irrit. 2	H319	--
Asp. Tox. 1	H304	--

### 2.2. Label elements:

The data below reflects current legislative requirements whereas the product in your possession may carry a different version of the label depending on the date of manufacture.

**Labelling according to 1272/2008/EC [CLP/GHS]:**

**Contains:** Distillates (petroleum), hydrotreated light , glycerol , Orthophosphoric acid , sodium metaphosphate

**Symbol(s):**

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 23.07.2015

Print Date: 29.07.2016

Z17000000341/Version: 5.0

Page: 2/15

---



**Signal word:** Danger

### Hazard statements:

Flammable liquid and vapour.  
Causes skin irritation.  
Causes serious eye irritation.  
May be fatal if swallowed and enters airways.

### Precautionary statements:

#### Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Keep container tightly closed.  
Ground/bond container and receiving equipment.  
Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Wash hands thoroughly after handling.  
Wear protective gloves/ eye protection/ face protection.

#### Response

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.  
IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
Specific treatment (see supplemental first aid instructions on this label).  
If skin irritation occurs: Get medical advice/ attention.  
Take off contaminated clothing and wash before reuse.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/ attention.  
IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.  
Do NOT induce vomiting.

#### Storage

Store in a well-ventilated place. Keep cool.

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 23.07.2015

Print Date: 29.07.2016

Z17000000341/Version: 5.0

Page: 3/15

Store locked up.

## Disposal

Dispose of contents/container in accordance with local/regional/national/international regulation.

## 2.3. Other hazards

None known.

## 3. Composition/information on ingredients

Weight percent	Component	CAS-No. EC No. REACH Reg. No.	Classification according to 1272/2008/EC	Classification according to 67/548/EEC
60 - 65	Distillates (petroleum), hydrotreated light	64742-47-8 265-149-8 not available	Asp. Tox. 1 H304 *	*
5 - 10	glycerol	56-81-5 200-289-5 not available	**	**
1 - 5	sodium dihydrogenorthophosphate	7558-80-7 231-449-2 not available	**	**
1 - 5	sodium metaphosphate	10124-56-8 233-343-1 not available	**	**
1 - < 3	Orthophosphoric acid	7664-38-2 231-633-2 01-2117485924-24-XXXX	Skin Corr. 1B H314 *	*

Full text of R- and H-phrases: see Section 16.

\* Substance classification as listed in Annex VI to Regulation (EC) No 1272/2008

\*\* Substance not listed in Annex VI to Regulation (EC) No 1272/2008

## 4. First aid measures

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 23.07.2015

Print Date: 29.07.2016

Z17000000341/Version: 5.0

Page: 4/15

---

### 4.1. Description of first aid measures

**4.1.1. Inhalation:** If inhaled, remove to fresh air. Get medical attention if symptoms occur.

**4.1.2. Skin:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before re-use. Destroy or thoroughly clean contaminated shoes. Get medical attention if symptoms occur.

**4.1.3. Eyes:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention if symptoms persist.

**4.1.4. Ingestion:** If swallowed, DO NOT induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Call a physician or poison control centre immediately.

**4.2. Most important symptoms and effects, both acute and delayed:** No information available.

**4.3. Indication of any immediate medical attention and special treatment needed:** No information available.

## 5. Firefighting measures

**5.1. Extinguishing Media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Use water spray to cool unopened containers.

### 5.2. Special hazards arising from the substance or mixture

**5.2.1. Hazardous Combustion Products:** Carbon oxides, (see also Hazardous Decomposition Products sections.)

**5.2.2. Unusual Fire and Explosion Hazards:** Flammable liquid and vapour. Material contains a flammable solvent that may accumulate in the container headspace.

**5.3. Advice for firefighters:** Wear self-contained breathing apparatus and protective clothing.

## 6. Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures:** Refer to protective measures listed in sections 7 and 8.

**6.2. Environmental precautions:** Remove all sources of ignition. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Non-sparking tools should be used. Contaminated absorbent should be disposed of in accordance with local regulations.

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 23.07.2015

Print Date: 29.07.2016

Z17000000341/Version: 5.0

Page: 5/15

Clean surface thoroughly to remove residual contamination. Prevent runoff from entering drains, sewers, or streams. Ventilate the area.

**6.3. Methods and materials for containment and cleaning up:** No information available.

**6.4. Reference to other sections:** See Section 8 for recommendations on the use of personal protective equipment.

## 7. Handling and storage

### 7.1. Precautions for safe handling

**7.1.1. Personal precautions:** Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Use only with adequate ventilation. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product.

**7.1.2. Prevention of Fire and Explosion:** Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Use only with adequate ventilation. Keep from contact with oxidizing materials.

**7.1.3. Ventilation:** Match ventilation rates to conditions of use so as not to exceed any applicable exposure limits (see Section 8). Good general ventilation of 10 or more room volumes per hour in the work area is recommended.

**7.2. Conditions for safe storage, including any incompatibilities:** Store in a well-ventilated place. Keep cool. Keep container tightly closed. Keep away from incompatible substances (see Incompatibility section.)

**7.3. Specific end use(s):** No information available.

## 8. Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. Occupational exposure controls

Chemical Name	Regulatory List	Value Type	Value
glycerol	EH40	Time weighted average	10 mg/m <sup>3</sup>
		Short term exposure limit	30 mg/m <sup>3</sup>
			<i>Form of exposure: mist</i>
			<i>Form of exposure: mist</i>
			<i>Remarks: calculated</i>

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 23.07.2015

Print Date: 29.07.2016

Z17000000341/Version: 5.0

Page: 6/15

---

Orthophosphoric acid		Time weighted average	1 mg/m3
glycerol	HSA	Short term exposure limit	2 mg/m3
		Time weighted average	10 mg/m3
		Short term exposure limit	30 mg/m3
			<i>Form of exposure: mist</i>
			<i>Form of exposure: mist</i>
			<i>Remarks: calculated</i>
Orthophosphoric acid		Time weighted average	1 mg/m3
		Short term exposure limit	0.006 mg/m3
		Short term exposure limit	0.0006 ppm
			<i>Expressed Os</i>

## 8.2. Exposure controls

**8.2.1. Appropriate engineering controls:** Use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. Controls should be sufficient so that applicable occupational exposure limits are not exceeded.

### 8.2.2. Individual protection measures, such as personal protective equipment

**Eye protection:** Wear safety glasses with side shields (or goggles).

**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	Thickness	Breakthrough time
Nitrile rubber	>= 0.38 mm	> 480 min
Neoprene	>= 0.65 mm	> 240 min
butyl-rubber	>= 0.36 mm	> 480 min
--	--	--

Avoid natural rubber gloves.

Wear protective gloves/ protective clothing.

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.

**Respiratory protection:** If engineering controls do not maintain airborne concentrations below recommended exposure limits, an approved respirator must be worn. If respirators

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 23.07.2015

Print Date: 29.07.2016

Z17000000341/Version: 5.0

Page: 7/15

---

are used, a program should be instituted to assure compliance with applicable federal, state, commonwealth, provincial, or local laws and regulations.

**General health and safety measures:** Safety shower, eye wash, washing facilities as appropriate to condition of use.

**8.2.3. Environmental exposure controls:** No information available.

### 9. Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

##### Appearance

**Physical state:** liquid (emulsion)

**Colour:** opaque white to pale yellow

**Odour:** aromatic

**Odour Threshold:** No data available

**pH:** 2.2 - 2.5

**Melting point/freezing point:** No data available

**Initial boiling point and boiling range:** > 100 °C (> 212.0 °F)

**Flash point:** 47 °C(116.6 °F) (Setaflash closed cup)

**Evaporation rate:** No data available

**Flammability (Solid; gas) :** No data available

**Upper explosion limit:** No data available

**Lower explosion limit:** No data available

**Vapour pressure:** 28 mbar (21.0 mm Hg)

**Vapour density:** 0.8

**Specific gravity:** 0.9

**Water solubility:** complete

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 23.07.2015

Print Date: 29.07.2016

Z17000000341/Version: 5.0

Page: 8/15

---

**Partition coefficient: n-octanol/water:** No data available

**Auto-ignition temperature:** No data available

**Decomposition temperature:** No data available

**Viscosity:** No data available

**Explosive properties:** No data available

**Oxidizing properties:** No data available

### 10. Stability and reactivity

**10.1. Reactivity:** No data available

**10.2. Chemical stability:** Stable under normal conditions.

No exotherm to boiling.

**10.3. Possibility of hazardous reactions:** Hazardous polymerisation does not occur.

**10.4. Conditions to avoid:** Heat, flames and sparks..

**10.5. Incompatible materials:** Strong oxidizing agents.

**10.6. Hazardous decomposition products:** Carbon oxides

### 11. Toxicological information

#### Effects of Exposure

#### General advice:

Contains: sodium metaphosphate. May cause kidney damage based on animal data. Data is not sufficient for GHS classification.

Contains: Orthophosphoric acid. The following exposure effects are based on pH of the solution, concentration of the acid, and a review of the literature.

#### Toxicokinetics, metabolism and distribution

No data available



## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 23.07.2015

Print Date: 29.07.2016

Z17000000341/Version: 5.0

Page: 9/15

---

### Acute toxicity

No data available

### Corrositivity and irritation

- Skin irritation: Irritating to skin.
- Eye irritation: Irritating to eyes.

### Sensitisation

No data available

### CMR effects

#### Germ cell mutagenicity

No information available.

### Carcinogenicity

No information available.

### Reproductive toxicity

No information available.

### Specific target organ toxicity - single exposure

No information available.

### Specific target organ toxicity - repeated exposure

No information available.

### Aspiration hazard

No information available.

### Information on likely routes of exposure

**Inhalation:** Airborne dust/mist/vapor may be irritating.

**Eyes:** Causes serious eye irritation.

**Skin:** Causes skin irritation.

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 23.07.2015

Print Date: 29.07.2016

Z17000000341/Version: 5.0

Page: 10/15

---

**Ingestion:** May be fatal if swallowed and enters airways.

### Data for Distillates (petroleum), hydrotreated light (CAS 64742-47-8):

#### Acute Toxicity Data:

Oral LD50 (Rat): > 5,000 mg/kg

- Inhalation LC50 (Rat): > 5.2 mg/l / 4 hr
- Dermal LD50 (Rabbit): > 2,000 mg/kg
- Skin irritation: Mild skin irritation
- Eye irritation: Mild eye irritation

### Data for glycerol (CAS 56-81-5):

#### Acute Toxicity Data:

Oral LD50 (Rat): 12,600 mg/kg

- Inhalation LC50 (Rat): > 570 mg/m<sup>3</sup> / 1 hr
- Dermal LD50 (Rabbit): > 10 g/kg
- Skin irritation: slight
- Eye irritation: very slight

### Data for sodium dihydrogenorthophosphate (CAS 7558-80-7) (Phosphoric acid, monosodium salt):

#### Acute Toxicity Data:

Oral LD50 (Rat): 8,290 mg/kg

- Dermal LD50 (Rabbit): > 7,940 mg/kg
- Skin irritation: Mild skin irritation
- Eye irritation: mild

### Data for sodium metaphosphate (CAS 10124-56-8):

#### Acute Toxicity Data:

Oral LD50 (Rat): 6,200 mg/kg

- Oral LD50 (Mouse): 4,320 mg/kg
- Oral LD50 (Rat): 2,400 mg/kg
- Inhalation LC50 (male and female Rat): > 3.69 mg/l / 4 hr
- Skin irritation: No skin irritation
- Eye irritation: No eye irritation
- Skin Sensitization (Mouse): none

### Data for Orthophosphoric acid (CAS 7664-38-2):

#### Acute Toxicity Data:

Oral LD50 (Rat): 1,530 mg/kg

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 23.07.2015

Print Date: 29.07.2016

Z17000000341/Version: 5.0

Page: 11/15

---

- Inhalation LC50 (Rat): > 850 mg/m<sup>3</sup> / 1 hr
- Dermal LD50 (Rabbit): 2,740 mg/kg
- Skin irritation: Causes burns.
- Eye irritation: Corrosive

### 12. Ecological information

The following properties are ESTIMATED from the components of the preparations.

#### 12.1. Toxicity

Toxicity to fish (LC50): 10 - 100 mg/l

Toxicity to daphnia (EC50): 1 - 10 mg/l

Toxicity to algae (IC50): 1 - 10 mg/l

#### 12.2. Persistence and degradability

Persistence and degradability: Readily biodegradable

#### 12.3. Bioaccumulative potential

No data available

#### 12.4. Mobility in soil

No information available.

#### 12.5. Results of PBT and vPvB assessment

No information available.

#### 12.6. Other adverse effects

No information available.

#### Additional ecological information:

Chemical Oxygen Demand (COD): ca. 104 g/l

Biochemical Oxygen Demand (BOD): ca. 110 g/l

### 13. Disposal considerations

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 23.07.2015

Print Date: 29.07.2016

Z17000000341/Version: 5.0

Page: 12/15

---

### 13.1. Waste treatment methods

This information is provided to assist users in the correct disposal of working solutions prepared and used to Kodak specifications.

**Working solution:** Waste material is currently classified as hazardous under Council Directive 91/689/EEC. The European Waste Catalogue Code is 09 01 99 Wastes not otherwise specified. Dispose according to the local regulations or guidelines that apply to the category of waste. Ensure the use of properly authorized waste management companies.

**Product containers:** If thoroughly cleaned, preferably by rinsing at least three times with small quantities of water, waste product packaging may be consigned for recovery or disposal as non hazardous waste. Whenever possible, minimize waste by using the rinsing water to make up the working solution. The European Waste Catalogue Code is 15 01 02 plastic packaging.

Waste product packaging contaminated by residues of hazardous contents should be consigned for disposal as hazardous waste. In this case, the European Waste Catalogue Code is 15 01 10 packaging containing residues of or contaminated by dangerous substances.

### 14. Transport information

The information below is provided to assist in documentation. It represents the dangerous goods classification before any regulatory exceptions are taken (e.g. "limited quantity") and therefore may not represent the final classification. The final classification as it pertains to the product packaging configuration (including labeling, marking, and exceptions) may be obtained via the Dangerous Goods Worksheet which can be found at [www.kodak.com/go/ship](http://www.kodak.com/go/ship).

**ADR:** UN number: UN1268  
Proper shipping name: PETROLEUM PRODUCTS, N.O.S.  
Class: 3  
Packaging group: III

**IATA:** UN number: UN1268  
Proper shipping name: PETROLEUM PRODUCTS, N.O.S.  
Class: 3  
Packaging group: III

**IMDG:** UN number: UN1268  
Proper shipping name: PETROLEUM PRODUCTS, N.O.S.  
Class: 3  
Packaging group: III

**RID:** UN number: UN1268

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 23.07.2015

Print Date: 29.07.2016

Z17000000341/Version: 5.0

Page: 13/15

---

Proper shipping name: PETROLEUM PRODUCTS, N.O.S.  
Class: 3  
Packaging group: III

For more transportation information, go to: [www.kodak.com/go/ship](http://www.kodak.com/go/ship).

### 15. Regulatory information

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

##### 1907/2006/EC Article 59(1) - Candidate List of Substances Subject to Authorisation

This mixture contains no ingredient which is subject to an authorisation according to Regulation (EC) No. 1907/2006 (REACH).

##### 1907/2006/EC - Annex XIV - Substances Subject to Authorization

This mixture does not contain substances which are subject to an authorization according to Regulation (EC) No. 1907/2006 (REACH).

##### 1907/2006/EC - Potential Substances of Very High Concern

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

##### 1907/2006/EC - Annex XVII - Restrictions on Certain Dangerous Substances

This mixture does not contain ingredients which are subject to restrictions according to Regulation (EC) No. 1907/2006 (REACH)

#### Detergents Regulation (648/2004) - Derogations and Banned or Restricted Detergent Surfactants

This mixture contains substances listed in Detergents Regulation (648/2004) - Derogations and Banned or Restricted Detergent Surfactants: sodium dihydrogenorthophosphate (231-449-2), sodium metaphosphate (233-343-1)

#### Notification status

Regulatory List	Notification status
TSCA	All listed
DSL	All listed
NDSL	None listed
EINECS	Not all listed
ELINCS	None listed

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 23.07.2015

Print Date: 29.07.2016

Z17000000341/Version: 5.0

Page: 14/15

---

NLP	Listed
AICS	All listed
IECS	All listed
ENCS	Not all listed
ECI	All listed
NZIoC	All listed
PICCS	All listed

"Not all listed" indicates one or more component is either not on the public Inventory or is subject to exemption requirements. If additional information is needed contact Kodak.

### 15.2. Chemical safety assessment

Chemical safety assessment has not been performed.

## 16. Other information

### 16.1. Indication of changes

Minor changes may be present due to component or regulatory data updates.

### 16.2. Key or legend to abbreviations and acronyms used in the safety data sheet

ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS = Australian Inventory of Chemical Substances; CAS = Chemical Abstracts Service; CLP = Classification, Labelling, and Packaging; DSL = Canada Domestic Substances List; EC = European Commission; EC50 = Effective Concentration 50%; ECI = Korea Existing Chemicals list; EH40 = EH40/2005 Workplace Exposure Limits; EINECS = European Inventory of Existing Commercial chemical Substances; ELINCS = European List of Notified Chemical Substances; ENCS = Japan Existing and New Chemical Substances; GHS = Globally Harmonized System of Classification and Labelling of Chemicals; HSA = Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents); IARC = International Agency for Research on Cancer; IATA = International Air Transport Association; IC50 = Inhibitory Concentration 50%; IECS = China Inventory of Existing Chemical Substances; IMDG = International Maritime Dangerous Goods; LC50 = Lethal Concentration 50%; LD50 = Lethal Dose 50%; mg/Kg = milligrams per Kilogram; mg/L = milligrams per Liter; mg/m<sup>3</sup> = milligrams per Cubic Meter; NDSL = Canada Non-Domestic Substances List; NLP = Europe No Longer Polymers; NZIoC = New Zealand Inventory of Chemicals; PBT = Persistent, Bioaccumulative and Toxic substances; PICCS = Philippines Inventory of Chemicals and Chemical Substances; ppm = parts per million; REACH= Registration, Evaluation and Authorization of Chemicals; RID = European Agreement concerning the International Carriage of Dangerous Goods by Rail; TSCA = Toxic Substances Control Act; vPvB = very Persistent, very Bioaccumulative substances

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 23.07.2015

Print Date: 29.07.2016

Z17000000341/Version: 5.0

Page: 15/15

---

### 16.3. Key literature references and sources for data

Available upon request.

### 16.4. Methods used for classification of mixture according to Regulation (EC) No 1272/2008

The determination of classifications is derived via expert judgment and/or weight of evidence.

### 16.5. Relevant R- and H-phrases

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

### 16.6. Training advice

Review Safety Data Sheet before using product.

### 16.7. Further information

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Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers and the protection of the environment. The information relating to the working solution is for guidance purposes only, and is based on correct mixing and use of the product according to instructions.

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