Safety Data Sheet

according to Regulation (EC) No. 1907/2006, as amended

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

1.1. Product identifier: Kodak DTG Light Pretreatment

Product code: 7463318

Synonyms: None.

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

1.2.1. Identified uses: ink or inkjet chemical

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.

2. Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP):

Hazard class / Hazard category	Hazard statements	Route of exposure
Eye Irrit. 2	H319	--

2.2. Label elements:

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

Contains: Acetic acid ethenyl ester, polymer with chloroethene

Symbol(s):

Signal word: Warning

Hazard statements:

Causes serious eye irritation.

Precautionary statements:

Prevention
Wash thoroughly after handling.
Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response
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.

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	Reason for disclosure
5 - 13	Magnesium sulphate, heptahydrate			
		10034-99-8 not applicable not applicable	Eye Irrit. 2 H319	hazardous
5 - 13	Acetic acid ethenyl ester, polymer with chloroethene			
		9003-22-9 not applicable not applicable	not classified	-

4. First aid measures

4.1. Description of first aid measures

4.1.1. Inhalation: If symptomatic, move to fresh air. Get medical attention if symptoms persist.

4.1.2. Skin: Wash off immediately with soap and plenty of water. Get medical attention if symptoms occur.

4.1.3. Eyes: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If easy to do, remove contact lens, if worn. If eye irritation persists: Get medical advice/ attention.

4.1.4. Ingestion: If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur.

4.2. Most important symptoms and effects, both acute and delayed: Eye Irritation: Signs/symptoms may include localized redness, swelling, lachrymation, itching, dryness, and pain.

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

5. Firefighting measures

5.1. Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment..

5.2. Special hazards arising from the substance or mixture

5.2.1. Hazardous Combustion Products: Carbon oxides, Sulphur oxides, hydrogen chloride

5.2.2. Unusual Fire and Explosion Hazards: None.

5.3. Advice for firefighters: Wear self-contained breathing apparatus and protective suit. Fire or excessive heat may produce hazardous decomposition products.

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: Prevent runoff from entering drains, sewers, or streams.

6.3. Methods and materials for containment and cleaning up: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination.

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: Avoid contact with eyes, skin, and clothing. Avoid breathing mist or vapour. Use only with adequate ventilation. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

7.1.2. Prevention of Fire and Explosion: Keep from contact with oxidizing materials.

7.1.3. Ventilation: Good general ventilation should be used. Ventilation rates should be matched to conditions.

7.2. Conditions for safe storage, including any incompatibilities: Keep in a dry, cool and well-ventilated place. Cool conditions (5 - 30°C). Keep container tightly closed. Keep away from food, drink and animal feeding stuffs. 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: Not established

8.2. Exposure controls

8.2.1. Appropriate engineering controls: Use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels to an acceptable level.

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.

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 to an acceptable level, an approved respirator must be worn. If respirators 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

Colour: milky white

Odour: odorless

Odour Threshold: No data available - testing not performed

pH: 5.5 - 6

Melting point/freezing point: No data available - testing not performed

Initial boiling point and boiling range: ca. 101 °C (213.8 °F)

Flash point: none, noncombustible liquid

Evaporation rate: No data available - testing not performed

Flammability (Solid; gas) : No data available - testing not performed

Upper explosion limit: No data available - testing not performed

Lower explosion limit: No data available - testing not performed

Vapour pressure: No data available - testing not performed

Vapour density: No data available - testing not performed

Volatile organic compounds (VOC) content: 82.7 %

Specific gravity: No data available - testing not performed

Water solubility: completely miscible

Partition coefficient: n-octanol/water: No data available - testing not performed

Auto-ignition temperature: No data available - testing not performed

Decomposition temperature: No data available - testing not performed

Viscosity: No data available - testing not performed

Explosive properties: No data available - testing not performed

Oxidizing properties: No data available - testing not performed

10. Stability and reactivity

10.1. Reactivity: No data available

10.2. Chemical stability: Stable under normal conditions.

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

10.4. Conditions to avoid: No data available

10.5. Incompatible materials: Strong acids and strong bases, Strong oxidizing agents.

10.6. Hazardous decomposition products: None under normal conditions of use.

11. Toxicological information

Effects of Exposure

11.1. Toxicokinetics, metabolism and distribution

No data available

11.2. Acute toxicity

No data available

11.3. Corrosivity and irritation

Eye irritation: Mild eye irritant

11.4. Sensitisation

No data available

11.5. CMR effects

11.5.1. Germ cell mutagenicity

No information available.

11.5.2. Carcinogenicity

No information available.

11.5.3. Reproductive toxicity

No information available.

11.6. Specific target organ toxicity - single exposure

No information available.

11.7. Specific target organ toxicity - repeated exposure

No information available.

11.8. Aspiration hazard

No information available.

11.9. Information on likely routes of exposure

Inhalation: Expected to be a low hazard for recommended handling.

Eyes: Causes serious eye irritation.

Skin: Expected to be a low hazard for recommended handling.

Ingestion: Expected to be a low ingestion hazard.

Data for Magnesium sulphate, heptahydrate (CAS 10034-99-8):

Acute Toxicity Data:
Oral LD50 (male and female Rat): > 2,000 mg/kg (no deaths occurred)
Dermal LD50 (Rat): > 2,000 mg/kg (no deaths occurred)

12. Ecological information

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

12.1. Toxicity

Toxicity to fish (LC50):	> 100 mg/l estimated
Toxicity to daphnia (EC50):	> 100 mg/l estimated

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:

This product has not been tested for environmental effects.

13. Disposal considerations

13.1. Waste treatment methods

Dispose according to the local regulations or guidelines that apply to the category of waste. Ensure the use of properly authorised waste management companies.

Waste material: Waste material is currently classified as hazardous waste under Directive 2008/98/EC, as amended. European Waste Catalogue EWC: 08 03 12 waste ink containing dangerous substances

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. 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

Not regulated for all modes of transportation.

For more transportation information, go to: 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 does not contain substances listed in Detergents Regulation (648/2004) - Derogations and Banned or Restricted Detergent Surfactants

Notification status

Regulatory List	Notification status
TSCA	Not all listed
DSL	All listed
NDSL	None listed
EINECS	Not all listed
ELINCS	None listed
NLP	None listed
AICS	All listed
IECS	All listed
ENCS	All listed
ECI	Not all listed
NZIoC	All listed
PICCS	All listed
TCSI	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
Corrected/updated:

composition data
classification(s)
label information
European Waste Catalogue
Multiple changes due to format update
Minor changes may be present due to component or regulatory data updates

Review Safety Data Sheet before using product.

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/m3 = 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

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
H319 Causes serious eye irritation.

16.6. Training advice
Review Safety Data Sheet before using product.

16.7. Further information

This Safety Data Sheet has been compiled and is solely intended for this product. The information is based upon the present state of our knowledge.