

# Safety Data Sheet

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

**Product name:** Kodak DTG Dark Pretreatment

**Product code:** 7463300

**Synonyms:** DTG-G4-DarkPre.

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

**Identified uses:** ink or inkjet chemical

**Supplier:** EASTMAN KODAK COMPANY, 343 State Street, Rochester, New York 14650

IN EMERGENCY, telephone: 1-800-424-9300 or +1 703-527-3887.

For further information about this product, email [us-pep@kodak.com](mailto:us-pep@kodak.com).

## 2. Hazards identification

**Classification of the chemical in accordance with paragraph (d) of 29 CFR 1910.1200:**

Hazard class	Hazard category	Route of exposure
Serious eye damage	Category 1	--

### GHS-Labeling

**Contains:**

nitric acid, ammonium calcium salt (15245-12-2)

**Symbol(s):**



**Signal word:** Danger

**Hazard statements:** Causes serious eye damage.

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## Precautionary statements:

**Prevention:** Wear 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. Immediately call a POISON CENTER/doctor.

**HMIS IV Hazard Ratings:** Health - 3, Flammability - 1, Physical Hazard - 0

**NFPA Hazard Ratings:** Health - 3, Flammability - 1, Instability - 0

NOTE: HMIS IV and NFPA 704 (2007) hazard indexes involve data review and interpretation that may vary among companies. They are intended only for rapid, general identification of the magnitude of the potential hazards. To adequately address safe handling, ALL information in this MSDS must be considered.

## 3. Composition/information on ingredients

Weight percent	Components - (CAS-No.)
3 - 20	nitric acid, ammonium calcium salt (15245-12-2)

## 4. First aid measures

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

**Eyes:** Immediately flush the contaminated eye(s) with water for at least 60 minutes, while holding the eyelid(s) open. If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Neutral saline solution may be used as soon as it is available. DO NOT INTERRUPT FLUSHING. Contact a physician or poison control center immediately. Continue flushing the eye(s) until the physician advises to stop. If necessary, continue flushing during transport to an emergency care facility.

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

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

**Most important symptoms and effects, both acute and delayed:** Serious Eye Damage: Signs/symptoms may include localized redness, swelling, lachrymation, itching, intense pain, ulceration, tissue destruction and loss of vision.  
Gastrointestinal Corrosion: Signs/symptoms may include severe mouth, throat and abdominal pain; nausea; vomiting; and diarrhea; blood in the feces and/or vomitus may also be seen.

**Indication of any immediate medical attention and special treatment needed:**

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**Treatment:** No information available.

## 5. Firefighting measures

**Extinguishing Media:** Water spray, Dry chemical, Carbon dioxide (CO<sub>2</sub>), Foam.

### Special hazards arising from the substance or mixture

**Hazardous Combustion Products:** Carbon oxides, Nitrogen oxides (NO<sub>x</sub>)

**Special Fire-Fighting Procedures:** Wear self-contained breathing apparatus and protective suit. Fire or excessive heat may produce hazardous decomposition products.

**Unusual Fire and Explosion Hazards:** Fire or high temperatures may cause decomposition.

## 6. Accidental release measures

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

**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.

**Environmental precautions:** Prevent runoff from entering drains, sewers, or streams.

**For Large Spills:** Prevent runoff from entering drains, sewers, or streams.

## 7. Handling and storage

### Precautions for safe handling

**Personal precautions:** Do not get in eyes, on skin, or on clothing. Do not breathe vapours or spray mist. Use only with adequate ventilation. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

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

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

**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.)

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## 8. Exposure controls/personal protection

**Occupational exposure controls:** Not established

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

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

**Eye protection:** Wear safety glasses with side shields (or goggles) and a face shield.

**Hand protection:** Wear protective gloves/ protective clothing.

**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.

## 9. Physical and chemical properties

**Physical form:** liquid

**Colour:** milky white

**Odour:** odourless

**Specific gravity:** No data available - testing not performed

**Vapour pressure:** No data available - testing not performed

**Vapour density:** No data available - testing not performed

**Boiling point/boiling range:** No data available - testing not performed

**Water solubility:** soluble

**pH:** 5.5 - 6.0

**Flash point:** > 93 °C (> 199.4 °F)

**Evaporation rate:** No data available - testing not performed

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

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**Upper explosion limit:** No data available - testing not performed

**Lower explosion limit:** No data available - testing not performed

**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

**Reactivity:** No data available

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

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

**Conditions to avoid:** No data available

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

**Hazardous decomposition products:** Carbon oxides, Nitrogen oxides (NO<sub>x</sub>)

## 11. Toxicological information

### Effects of Exposure

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

**Eyes:** Causes serious eye damage.

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

**Ingestion:** May cause burns of the gastrointestinal tract if swallowed.

**Data for nitric acid, ammonium calcium salt (CAS 15245-12-2):**

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## Acute Toxicity Data:

Oral LD50 (Rat): 2,000 mg/kg

- Oral LD50 (Rat): 300 - 2,000 mg/kg (in water)
- Dermal LD50 (Rat): > 2,000 mg/kg (no deaths occurred)
- Eye irritation: strong

## Carcinogenicity

American Conference of Governmental Industrial Hygienists (ACGIH):	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
U.S. National Toxicology Program (NTP):	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
International Agency for Research on Cancer (IARC):	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
U.S. Occupational Safety and Health Administration (OSHA):	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
California Prop. 65	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## 12. Ecological information

This product has not been tested for environmental effects.

### Potential Toxicity:

Toxicity to fish (LC50): No data available

Toxicity to daphnia (EC50): No data available

**Persistence and degradability:** No data available

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Environmental data are not available.

## Bioaccumulative potential

No data available

## Mobility in soil

No information available.

## 13. Disposal considerations

Discharge, treatment, or disposal may be subject to federal, state, commonwealth, provincial, or local laws. Since emptied containers retain product residue, follow label warnings even after container is emptied.

## 14. Transport information

Not regulated for all modes of transportation.

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

## 15. Regulatory information

### Notification status

Regulatory List	Notification status
TSCA	All listed
DSL	Not all listed
NDSL	Listed
EINECS	Not all listed
ELINCS	None listed
NLP	None listed
AICS	Not all listed
IECS	Not all listed
ENCS	Not all listed
ECI	All listed
NZIoC	All listed

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PICCS Not 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.

### Other regulations

U.S. - CERCLA/SARA (40 CFR § 302.4 Designation of hazardous substances):	No components of this product are subject to the SARA Section 302 (40 CFR 302.4) reporting requirements.
U.S. - CERCLA/SARA - Section 302 (40 CFR § 355 Appendices A and B - The List of Extremely Hazardous Substances and Their Threshold Planning Quantities):	No components of this product are subject to the SARA Section 302 (40 CFR 355) reporting requirements.
U.S. - CERCLA/SARA - Section 313 (40 CFR § 372.65 Toxic Chemical Release Reporting):	No components of this product are subject to the SARA Section 313 (40 CFR 372.65) reporting requirements.
U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances:	No components found on the California Director's List of Hazardous Substances.
U.S. - California - 8 CCR Section 5200-5220 - Specifically Regulated Carcinogens:	No components found on the California Specifically Regulated Carcinogens List.
U.S. - California - 8 CCR Section 5203 Carcinogens:	No components found on the California Section 5203 Carcinogens List.
U.S. - California - 8 CCR Section 5209 Carcinogens:	No components found on the California Section 5209 Carcinogens List.
U.S. - Massachusetts - General Law Chapter 111F (MGL c 111F) - Hazardous Substances Disclosure by Employers (a.k.a. Right to Know Law):	No components regulated under the Massachusetts Hazardous Substances Disclosure by Employers Law.
U.S. - Minnesota Employee Right-to-Know (5206.0400, Subpart 5. List of Hazardous Substances):	No components found on the Minnesota Employee Right-to-Know List of Hazardous Substances.
U.S. - New Jersey - Worker and Community Right to Know	No components regulated under the



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Act (N.J.S.A. 34:5A-1):

New Jersey Worker and  
Community Right-to-Know Act.

U.S. - Pennsylvania - Part XIII. Worker and Community  
Right-to-Know Act (Chapter 323 Hazardous Substance  
List, Appendix A):

No components regulated under the  
Pennsylvania Worker and  
Community Right-to-Know Act.

## 16. Other information

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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.

### US/Canadian Label Statements:

#### Kodak DTG Dark Pretreatment

##### Contains:

nitric acid, ammonium calcium salt (15245-12-2)

##### Symbol(s):



**Signal word:** Danger

**Hazard statements:** Causes serious eye damage.

##### Precautionary statements:

**Prevention:** Wear 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. Immediately call a POISON CENTER/doctor.

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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.

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R-1, S-2, F-1, C-0