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.

2. Hazards identification

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

<table>
<thead>
<tr>
<th>Hazard class</th>
<th>Hazard category</th>
<th>Route of exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious eye damage</td>
<td>Category 1</td>
<td>--</td>
</tr>
</tbody>
</table>

**GHS-Labelling**

**Contains:**

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

**Symbol(s):**

![Danger symbol]

**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.

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

<table>
<thead>
<tr>
<th>Weight percent</th>
<th>Components - (CAS-No.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 - 20</td>
<td>nitric acid, ammonium calcium salt (15245-12-2)</td>
</tr>
</tbody>
</table>

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:
Treatment: No information available.

5. Firefighting measures

Extinguishing Media: Water spray, Dry chemical, Carbon dioxide (CO2), Foam.

Special hazards arising from the substance or mixture
Hazardous Combustion Products: Carbon oxides, Nitrogen oxides (NOx)

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.)
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
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 (NOx)

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):
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
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.

**15. Regulatory information**

**Notification status**

<table>
<thead>
<tr>
<th>Regulatory List</th>
<th>Notification status</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSCA</td>
<td>All listed</td>
</tr>
<tr>
<td>DSL</td>
<td>Not all listed</td>
</tr>
<tr>
<td>NDSL</td>
<td>Listed</td>
</tr>
<tr>
<td>EINECS</td>
<td>Not all listed</td>
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<tr>
<td>ELINCS</td>
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<tr>
<td>NLP</td>
<td>None listed</td>
</tr>
<tr>
<td>AICS</td>
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</tr>
<tr>
<td>IECS</td>
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<tr>
<td>ENCS</td>
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</tr>
<tr>
<td>ECI</td>
<td>All listed</td>
</tr>
<tr>
<td>NZIoC</td>
<td>All listed</td>
</tr>
</tbody>
</table>
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. - New Jersey - Worker and Community Right to Know No components regulated under the
16. Other information

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