



MATERIAL SAFETY DATA SHEET

1. Chemical product and company identification

A. Product name F9K55Series

B. Recommended use and Limitations on use

Recommended use Inkjet printing

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2. Hazards identification

A. Hazard category/Classification

Physical hazards Not classified.
Health hazards Not classified.
Environmental hazards Not classified.

B. Warning label items including precautionary statement

- **Pictogram** None.
- **Signal word** None.
- **Hazard statement** None.

• Precautionary statement

Prevention None
Response None
Storage None
Disposal None

C. Other hazards not included in the hazard category criteria (e.g. dust explosion hazard) Not available.

Other hazards Complete toxicity data are not available for this specific formulation.

Potential routes of overexposure to this product are skin and eye contact. Inhalation of vapor and ingestion are not expected to be significant routes of exposure for this product under normal use conditions.

3. Composition/information on ingredients

| Chemical identity | Common and alternative names | CAS number | ID number | Content in percent (%) |
|-------------------|------------------------------|------------|-----------|------------------------|
| Water | | 7732-18-5 | KE-35400 | 80-90 |
| Calcium Chloride | | 10043-52-4 | KE-04496 | <10 |

Composition comments This ink supply contains an aqueous ink formulation.

4. First aid measures

- A. In case of eye contact** Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at least 15 minutes or until particles are removed. If irritation persists get medical attention.
- B. In case of skin contact** Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.
- C. In case of inhalation** Move to fresh air. If symptoms persist, get medical attention.
- D. In case of swallowing** If ingestion of a large amount does occur, seek medical attention.
- E. Note to physician** Not available.

5. Fire-fighting measures

A. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media Dry chemical, CO₂, water spray or regular foam.

Unsuitable extinguishing media None known.

B. Specific hazards arising from the chemical (example: hazardous combustion products) Not available.

C. Specific methods of fire-fighting Not available.

C. Specific methods of fire-fighting Not available.

6. Accidental release measures

A. Personal precautions, protective equipment and emergency measures Wear appropriate personal protective equipment.

B. Environmental precautions Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

C. Methods and materials for containment and cleaning up Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps.

7. Handling and storage

A. Precautions for safe handling Avoid contact with skin, eyes and clothing.

B. Conditions for safe storage (including any incompatibilities) Keep out of the reach of children. Keep away from excessive heat or cold.

8. Exposure controls/personal protection

A. Exposure limit values, biological limit values, etc

No exposure limits noted for ingredient(s).

Biological limit values No biological exposure limits noted for the ingredient(s).

Exposure guidelines Exposure limits have not been established for this product.

B. Appropriate engineering controls Use in a well ventilated area.

C. Personal protective equipment

• **Respiratory protection** Not available.

• **Eye protection** Not available.

• **Hand protection** Not available.

• **Body protection** Not available.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

Recommended monitoring procedures

Additional exposure data Exposure limits have not been established for this product.

9. Physical and chemical properties

A. Appearance

Physical state Not available.

Color Milky.

B. Odor Not available.

| | |
|---|---|
| C. Odor threshold | Not available. |
| D. pH | 5.9 |
| E. Melting point/freezing point | Not available. |
| F. Boiling point, initial boiling point, and boiling range | Not available. |
| G. Flash point | > 200.0 °F (> 93.3 °C) Pensky-Martens Closed Cup EPA Method 1010A |
| H. Evaporation rate | Not available. |
| I. Flammability (solid, gas) | Not available. |
| J. Upper/lower limit on flammability or explosive limits | |
| Flammability limit - lower (%) | Not available. |
| Flammability limit - upper (%) | Not available. |
| Explosive limit - lower (%) | Not available. |
| Explosive limit - upper (%) | Not available. |
| K. Vapor pressure | Not available. |
| L. Solubility | |
| Solubility (water) | Not available. |
| M. Vapor density | Not available. |
| N. Specific gravity | Not available. |
| O. n-octanol/water partition coefficient | Not available. |
| P. Auto-ignition temperature | Not available. |
| Q. Decomposition temperature | Not available. |
| R. Viscosity | Not available. |
| S. Molecular weight | Not available. |
| Other data | |
| VOC (Weight %) | 4 g/l EPA Method 24 |

10. Stability and reactivity

A. Stability and hazardous reaction potential

| | |
|-------------------------------------|--|
| Stability | Stable under recommended storage conditions. |
| Hazardous reaction potential | Will not occur. |

B. Conditions to avoid (e.g. static discharge, shock or vibration, etc) Not available.

C. Incompatible materials Incompatible with strong bases and oxidizing agents.

D. Hazardous decomposition products Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

11. Toxicological information

A. Information on likely routes of exposure

- **Respiratory organs** Not available.
- **Mouth** Not available.
- **Eyes** Not available.
- **Skin** Not available.

B. Information on health hazards

- **Acute toxicity (list all possible routes of exposure)** Based on available data, the classification criteria are not met.
- **Corrosivity or irritation to the skin** Based on available data, the classification criteria are not met.

- **Serious eye damage/eye irritation** Based on available data, the classification criteria are not met.
- **Respiratory sensitization** Based on available data, the classification criteria are not met.
- **Skin sensitization** Based on available data, the classification criteria are not met.
- **Carcinogenic properties /Carcinogenicity** Based on available data, the classification criteria are not met.
- **Mutagenic properties /Mutagenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **Specific target organ toxicity - single exposure** Based on available data, the classification criteria are not met.
- **Specific target organ toxicity - repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

| Components | Species | Test Results |
|------------|---------|--------------|
|------------|---------|--------------|

Calcium Chloride (CAS 10043-52-4)

Acute

Oral

| | | |
|------|-----|--------------|
| LD50 | Rat | > 1000 mg/kg |
|------|-----|--------------|

Other

| | | |
|------|-------|----------|
| LD50 | Mouse | 42 mg/kg |
|------|-------|----------|

Further information Complete toxicity data are not available for this specific formulation. Refer to Section 2 for potential health effects and Section 4 for first aid measures.

12. Ecological information

A. Ecotoxicity

| Components | Species | Test Results |
|------------|---------|--------------|
|------------|---------|--------------|

Calcium Chloride (CAS 10043-52-4)

Aquatic

| | | | |
|-----------|------|----------------------------|-------------------|
| Crustacea | EC50 | Water flea (Daphnia magna) | 52 mg/l, 48 hours |
|-----------|------|----------------------------|-------------------|

| | | | |
|------|------|--------------------------------------|----------------------------|
| Fish | LC50 | Fathead minnow (Pimephales promelas) | 3930 - 5360 mg/l, 96 hours |
|------|------|--------------------------------------|----------------------------|

Hazardous to the aquatic environment, acute hazard Not available.

Hazardous to the aquatic environment, long-term hazard Not available.

B. Persistence/degradability Not available.

C. Bioaccumulative potential Not available.

D. Mobility in soil Not available.

E. Other adverse effects Not available.

13. Disposal considerations

A. Method of disposal Do not dispose of together with general office waste. Do not allow this material to drain into sewers/water supplies. Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. Ensure collection and disposal with an appropriately licensed waste contractor.

B. Disposal considerations (including disposal of contaminated containers or packaging) Not available.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

ADR

Not regulated as dangerous goods.

Further information

Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.

15. Regulatory information**A. Restrictions under the Industrial Safety and Health Law****Harmful Substances Prohibited from Manufacturing**

Not regulated.

Harmful Substances Requiring Permission for Manufacture or Use

Not regulated.

Controlled Hazardous Substances

Not regulated.

Harmful Substances Requiring Special Medical Examination

Not regulated.

Workplace Environmental Monitoring Harmful Materials

Not regulated.

Occupational Exposure Limit

Not regulated.

B. Restrictions under the Toxic Chemicals Control Law**Accidental Release Prevention Substances**

Not regulated.

Banned Toxic Chemicals

Not regulated.

Observational Chemicals

Not regulated.

Restricted Chemical Substances

Not regulated.

Toxic Chemicals

Not regulated.

C. Restrictions under the Dangerous Substance Safety Management Act**D. Restrictions under the Wastes Control Act****Halogenated Materials in Waste Organic Solvents**

Not regulated.

Hazardous Substances

Not regulated.

E. Restrictions under other foreign or domestic laws**Clean Air Conservation Act****Air Pollutants**

Not regulated.

Specific Air Pollutants

Not regulated.

Regulatory information

The components of this product are reported in the following inventories: United States of America, European Union, Switzerland, Canada, Korea and China.

16. Other information**A. Source of information**

Not available.

B. Issue date

06-Apr-2017

C. Number of revisions and date of most recent revision

Not applicable.

D. Other

Not available.

Disclaimer

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Manufacturer information

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Explanation of abbreviations

| | |
|---------------|---|
| ACGIH | American Conference of Governmental Industrial Hygienists |
| CAS | Chemical Abstracts Service |
| CERCLA | Comprehensive Environmental Response Compensation and Liability Act |
| CFR | Code of Federal Regulations |
| COC | Cleveland Open Cup |
| DOT | Department of Transportation |
| EPCRA | Emergency Planning and Community Right-to-Know Act (aka SARA) |
| IARC | International Agency for Research on Cancer |
| NIOSH | National Institute for Occupational Safety and Health |
| NTP | National Toxicology Program |
| OSHA | Occupational Safety and Health Administration |
| PEL | Permissible Exposure Limit |
| RCRA | Resource Conservation and Recovery Act |
| REC | Recommended |
| REL | Recommended Exposure Limit |
| SARA | Superfund Amendments and Reauthorization Act of 1986 |
| STEL | Short-Term Exposure Limit |
| TCLP | Toxicity Characteristics Leaching Procedure |
| TLV | Threshold Limit Value |
| TSCA | Toxic Substances Control Act |
| VOC | Volatile Organic Compounds |