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Safety Data Sheets (SDS)

1. Product and Company Information

Product name: RCF-6 FD-R
 Company name: CHUGAI PHOTO & CHEMICAL Co.,Ltd.
 Address: 2-19-1 Narihira, Sumida-ku, Tokyo,130-0002,Japan
 Department in charge: Sales Promotion Division
 Telephone: 047-362-2596
 Fax number: 047-368-1091
 Emergency contact: Same as above

2. Hazards Summary:

GHS Classification (Classification criteria are Japanese method): Not applicable.
 Most important hazards and effects: No particular dangers are present under normal handling.
 Physical and chemical hazards: No particular hazards if handled normally.
 Harmful effects:
 Skin: May cause skin irritation.
 Eyes: May cause eye irritation.
 Inhalation: May cause respiratory tract irritation.
 Ingestion: May be harmful if swallowed.
 Other information: None.
 Hazardous to the environment: No data available.
 Specific hazards: None

3. Composition information

Distinguishing between single products and mixtures

In principle, items subject to labeling or notification under the Industrial Safety and Health Act must display a percentage equal to or higher than the specified percentage under the Industrial Safety and Health Act, and all other items must display a percentage equal to or higher than 1%.

| Ingredient name | content (%) | CAS No. | Chemical Substance Control Law No. | PRTR method | GHS classification |
|------------------------|-------------|------------|------------------------------------|-------------|--|
| Water | 50-70 | 7732-18-5 | | | Contributing Component Not applicable |
| Potassium carbonate | 5-15 | 584-08-7 | 1-0153 | | Not applicable |
| Sodium sulfite | 5-15 | 7757-83-7 | 1-0502 | | Not applicable |
| Potassium hydroquinone | | | | | |
| Sulfonate | 5-15 | 21799-87-1 | 3-2017 | | Not applicable |
| Triethylene glycol | 5-15 | 112-27-6 | 2-0429 | | Not applicable |
| Sodium thiocyanate | Less than 1 | 540-72-7 | 1-0160 | | Not applicable |

Substances subject to the PRTR Law (Law for Promoting the Management of Chemical Substances) are shown as classified as specific Class 1, Class 1, or Class 2 designated chemical substances.

Ingredients with the notation [Safety and Health Labeling] next to them are subject to labeling under the Industrial Safety and Health Act, those with the notation [Safety and Health Notification] are subject to notification under the Industrial Safety and

Health Act, and those with the notation [Organic Solvent Poisoning Prevention Regulations] are subject to the Industrial Safety and Health Act's Organic Solvent Poisoning Prevention Regulations.

4. First aid measures

- Inhalation: Immediately move victim to fresh air and keep quiet. If symptoms persist, seek medical attention.
- Skin contact: Immediately wash affected area with plenty of water and soap. Remove contaminated clothing and wash thoroughly before reuse. If symptoms persist, seek medical attention.
- In case of contact with eyes: Immediately flush eyes with clean running water for several minutes. If symptoms persist, seek medical attention.
- If swallowed: Rinse mouth thoroughly with water and seek medical attention.

5. Fire Prevention Measures

- Extinguishing media: Use water, carbon dioxide, powder, or foam extinguishers.
- Unsuitable extinguishing agents: No extinguishing agents are unsuitable under normal circumstances.
- Specific fire fighting methods: In case of fire in the surrounding area, move containers to a safe place if possible. All non-essential personnel should evacuate to a safe place immediately. Take care to ensure that leaked substances and fire extinguishing agents are not discharged into rivers, etc. Firefighting activities should be carried out from upwind whenever possible.
- Protection of firefighters: Wear appropriate protective equipment when fighting fires.

6. Leak Prevention Measures

- Personal precautions, protective equipment and emergency procedures: Wear appropriate protective equipment when working. (See "8. Exposure Prevention and Protection Measures.")
- Environmental precautions: Take care not to discharge leaked liquid into rivers, etc. Ensure ventilation as necessary.
- Methods and equipment for containment and cleanup: Collect any spills in an appropriate manner and then flush with plenty of water.

7. Handling and storage precautions

- Available:
- Technical measures: Avoid contact with skin, mucous membranes, clothing, and eyes. Wash hands and face thoroughly after handling.
- Local/general exhaust: Ensure that the work area is adequately ventilated.
- Note: See next page
- Safe handling precautions: Wear appropriate protective equipment when handling. Wash hands and face thoroughly after handling.
- storage:
- Storage conditions: Store tightly sealed in a cool place away from direct sunlight.
- Incompatible materials: Strong acids
- Safe container and packaging materials: Use plastic containers with sufficient strength.

8. Exposure Controls and Personal Protection

- Facility measures: Ensure that the workplace is adequately ventilated. Also, provide hand washing

and face washing facilities near the workplace, and wash your hands and face thoroughly after handling.

Controlled and permitted concentrations of contained ingredients:

| Ingredient Name | CAS No. | Ministry of Health, Labor and Welfare Notification Control concentration | Japanese Industry | ACGIH TLV |
|-------------------------------------|------------|---|-------------------|------------------|
| | | | Hygiene Society | |
| Potassium carbonate | 584-08-7 | No set value | No set value | No set value |
| Sodium sulfite | 7757-83-7 | No set value | No set value | No set value |
| Potassium hydroquinone sulfonate | 21799-87-1 | No set value | No set value | No set value |
| Triethylene glycol | 112-27-6 | No setting | No setting | No setting |
| Sodium thiocyanate | 540-72-7 | No setting value | No setting value | No setting value |

Protective equipment:

Respiratory protection: Wear appropriate respiratory protection as necessary.

Hand protection: Wear suitable protective gloves.

Eye protection: Wear safety glasses. Face protection if necessary.

Skin and body protection:

Wear suitable protective clothing as necessary.

Hygiene measures: Do not eat, drink or smoke while working. Wash hands with soap before eating, drinking or smoking.

9. Physical and Chemical Properties

Physical State

Form: Liquid
Color: Colorless
Odor: No peculiar odor
pH: 9.9

Specific temperature/temperature range where physical state changes:

Boiling point: ~100°C
Melting point: ~0°C

Flammability, etc.: Stable under normal handling.

Flash point: Not applicable (non-flammable aqueous solution)

Ignition point: No data (not flammable)

Lower explosion limit : Not applicable

Upper limit : Not applicable

Vapor pressure: No data available

Vapor density: No data available

Specific Gravity: 1.29

Solubility (in water): Easy to dissolve

Octanol/water partition coefficient data not available

decomposition temperature data available

10. Stability and Reactivity

Stability: Stable under normal conditions of use.

Reactivity: When mixed with strong acids, harmful sulfur dioxide gas is produced.

Hazardous decomposition products: Sulfur oxides (sulfur dioxide, etc.), nitrogen oxides, carbon monoxide, carbon dioxide

Other information: None

11. Toxicological information

Product data

Acute toxicity

Acute oral toxicity (LD50): >2000mg/kg (calculated value)

Test animals: rats

May be harmful if swallowed.

Local effects

Skin irritation: May cause skin irritation.

(Primary irritation index PII: no data available)

Test animals: No data available

Eye irritation: May cause eye irritation.

(Acute eye irritation index: no data available)

Test animals: No data available

Skin sensitization: No data available

Test animals: No data available

Chronic toxicity/long-term toxicity: No data available

Carcinogenicity of component chemicals: No data available

Other information: None

12. Environmental impact information

Product data

Thiocyanates are detected as cyanide compounds using the cyanide analysis method specified in the Water Pollution Control Law.

Acute toxicity to the aquatic environment: No data available

Fish toxicity: No data available

Test species: No data available

Chronic toxicity to the aquatic environment: No data available

13. Disposal Considerations

RCF-6 FD-R contains thiocyanate, so when disposing of the undiluted solution or used solution, never dispose of it in sewer systems or rivers.

When disposing of the undiluted solution or used solutions, they are classified as specially controlled industrial waste.

Please entrust the disposal to a specialized industrial waste disposal company authorized by the prefectural governor by attaching a special industrial waste management form (manifest).

Please dispose of containers and cardboard in accordance with prefectural and local regulations.

[Applicable laws and regulations when disposing of the item]

Waste Management Law: Specially controlled industrial waste (specific hazardous industrial waste: total cyanide)

Water Pollution Control Law: Living Environment Items

Sewerage Law: Restrictions on removal of sewage

14. Transportation Precautions

Not subject to transportation regulations.

UN Classification: Not applicable

See section 7. Handling and storage precautions.

When transporting, check that there are no leaks, and load the container carefully to prevent it from tipping, falling, or being damaged, and take steps to prevent the container from collapsing.

15. Applicable Laws and Regulations

under the Chemical Substances Control Law : Not applicable
 Designated Chemical Substances: Not applicable
 Industrial Safety and Health Act Hazardous Materials: Not applicable
 Special rules: Not applicable
 Organic law: Not applicable
 Display subject: Not applicable
 Notification subject: Not applicable
 Poisonous and Hazardous Substances Act: Not applicable
 Fire Service Act: Not applicable
 Chemical Substances Management Promotion Act
 (PRTR Law): Not applicable
 Ship Safety Act: Not applicable
 Aviation Law: Not applicable

16. Other Information

RCF-6 FD-R mixed solution

In principle, items subject to labeling or notification under the Industrial Safety and Health Act must display a percentage equal to or higher than the specified percentage under the Industrial Safety and Health Act, and all other items must display a percentage equal to or higher than 1%.

| Ingredient name | content (%) | CAS No. | Chemical Substance Control Law No. | PRTR Law | GHS classification Contributing Component |
|-------------------------------------|-------------|------------|------------------------------------|----------|--|
| Water | 75-95 | 7732-18-5 | | | Not applicable |
| Potassium carbonate | Less than 5 | 584-08-7 | 1-0153 | | Not applicable |
| Sodium sulfite | Less than 5 | 7757-83-7 | 1-0502 | | Not applicable |
| Potassium hydroquinone sulfonate | Less than 5 | 21799-87-1 | 3-2017 | | Not applicable |
| Triethylene glycol | Less than 5 | 112-27-6 | 2-0429 | | Not applicable |
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RCF-6 FD-R 5L x 4 Liquid volume per unit: 1L

The contents are based on currently available information, but we do not guarantee the data or evaluations contained herein.

Hazard and harmfulness assessments have not always been sufficient, so please handle with care.

In the event of special handling, it is the user's responsibility to take appropriate measures according to the actual situation.

In addition, the contents may be revised based on changes in laws and regulations or new knowledge.

Created by: CHUGAI PHOTO & CHEMICAL Co.,Ltd. Manufacturing Department
