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## Safety Data Sheets (SDS)

### 1. Product and Company Information

Product name:	RCF-6 RV-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):

Health hazards:

Specific target organ/systemic toxicity  
(Single exposure): Category 3

Specific target organ/systemic toxicity  
(Repeated exposure): Category 2

Environmental hazards

Aquatic environment acute hazard: Category 2

Chronic toxicity to the aquatic environment: Category 2

\*The smaller the number (classification) of danger/harm, the higher the danger/harm.

\*Items without a description are not classified, are not subject to classification, or cannot be classified.

Label elements:

Pictograms:



exclamation mark



health hazard



environment

Signal word:

Warning

Hazard statement:

Risk of respiratory irritation (Category 3 (single exposure))

Risk of organ (lung) damage through long-term or repeated exposure  
(Category 2 (repeated))

Toxic to aquatic life (category 2)

Toxic to aquatic life with long-term effects (category 2)

Note:

[Preventive measures]

Do not breathe dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

Do not eat, drink or smoke when using this product.

Wash hands thoroughly after handling.

Wear protective gloves, clothing, a protective mask and safety glasses.

**【correspondence】**

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do, then continue rinsing.  
If eye irritation persists, seek medical advice/attention.

Skin contact:  
Wash with plenty of water and soap.  
If skin irritation occurs, seek medical advice and treatment.  
Remove contaminated clothing and wash before reuse.  
If exposed or feel unwell, contact a physician.

**【storage】**

Store in a cool place away from direct sunlight.  
Keep out of reach of children.

**【Discard】**

Entrust the contents and container to a waste disposal company authorized by the prefectural governor. (See 13. Disposal Precautions.)

**[Precautions for use]**

Wear appropriate protective equipment when handling. Wash hands and face thoroughly after handling.

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 Law	GHS classification
water	45-65	7732-18-5			Contributing Component Not applicable
Sodium Propionate	20-30	137-40-4	2-0203		Not applicable
Organic sodium phosphonate	Less than 5	20592-85-2	2-1867		Not applicable
Sodium phosphate	5-15	10101-89-0	1-0497		Not applicable
Stannous chloride					
[Safety and Health Notification]	Less than 3	10025-69-1	1-0260		Not applicable ○

Substances subject to the PRTR Law (Law for Promoting the Management of Chemical Substances) are shown with their classification as specific Class 1, Class 1, or Class 2 designated chemical substances and their Cabinet Order Number.

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 Personal Protection").
- Environmental precautions: Take care not to discharge spills 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 in a cool, sealed container away from direct sunlight.
- Incompatible materials: Oxidizing agents
- 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		Japanese Industry	ACGIH TLV
		Permissible Concentration		Hygiene Society	
Sodium Propionate	137-40-4	No set value		No set value	No set value
Sodium organic phosphonate	20592-85-2	No set value		No set value	No set value
Sodium phosphate	10101-89-0	No set value		No set value	No set value
Stannous chloride	10025-69-1	No set value		No set value	2mg/m <sup>3</sup> (TWA: as tin)

## 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: Slight yellow  
 Odor: Almost odorless  
 pH: 6.1

## 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: 1.24

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.

Possibility of hazardous reactions: May react violently when mixed with oxidizing agents.

Conditions to avoid: direct sunlight, freezing

Incompatible materials: Oxidizing agents

Hazardous decomposition products: Nitrogen oxides, chlorine gas, 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

#### Local effects

Skin irritation: May cause mild 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

Chronic toxicity/long-term toxicity: Risk of organ (lung) damage through long-term or repeated exposure  
(Category 2 (repeated))

Carcinogenicity information for component chemicals: No data

Other information: None

### Ingredient Data (Stannic Chloride)

#### Acute toxicity

Acute oral toxicity (LD50): > 2300mg/kg

Test animals: rats

#### Local effects

Skin irritation: Not classifiable

(Primary irritation index PII: no data available)

Test animals: No data available

Eye irritation: Causes severe eye irritation.

(Acute eye irritation index: no data available)

Test animals: No data available

Chronic toxicity/long-term toxicity: May cause organ (lung) damage through long-term or repeated exposure.

Carcinogenicity information for component chemicals: Outside category

Other information: None

## 12. Environmental impact information

### Product data

Acute aquatic hazard: Toxic to aquatic organisms

Fish toxicity: No data available

Test species: No data available

Chronic toxicity to the aquatic environment: Toxic to aquatic organisms with long-term effects

### Ingredient Data (Stannic Chloride)

Acute aquatic hazard: Toxic to aquatic organisms

Toxicity : 72hr EC50 = 0.2 mg/L

Test organism: Thalassiosira (algae)

Chronic toxicity to the aquatic environment: Toxic to aquatic organisms with long-term effects

## 13. Disposal Considerations

When disposing of undiluted or used solutions, do not directly dispose of them in sewers or rivers. If your company does not have its own wastewater treatment equipment, entrust the disposal to a specialized industrial waste disposal company authorized by the prefectural governor, attaching an industrial waste management form (manifest).

Containers and cardboard are also treated as industrial waste.

[Applicable laws and regulations when disposing of the item]

Waste Management Law: Industrial waste

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 goods carefully to prevent them from tipping, falling, or being damaged, and take steps to ensure that the goods do not collapse.

## 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: Stannous chloride (tin and its compounds)

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 RV-R Mixture

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RCF-6 RV-R 5L x 4 Liquid volume per unit: 0.25L

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.

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

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