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Safety Data Sheets (SDS)

1. Product and Company Information

Product name: RCF-6 CD-R Part-B
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:

Skin corrosion/irritation: Category 1
Serious eye damage/eye irritation: Category 1

*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:



Corrosive

Signal word: Danger
Hazard and Toxicity Statement: Serious skin burns (category 1)
Serious eye damage (category 1)

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 Contributing Component
Water	45-65	7732-18-5			Not applicable
Para-phenylenediamine derivatives	40-50	25646-71-3	3-0317		Not applicable
Sodium hydrogen sulfite [Safety and Health Notice]	0.1-0.9	7631-90-5	1-0502		Not applicable

Substances subject to the PRTR Law (Law for Promoting the Management of Chemical Substances) are shown with their classification (Type 1, Type 1, or Type 2 Designated Chemical Substances) and 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: 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 Permissible Concentration	Japanese Industry Hygiene Society	ACGIH TLV
Para-phenylenediamine derivative	25646-71-3	No setting value	No setting value	No setting value
Sodium bisulfite	7631-90-5	No set value	No set value	No set value
Sulfur dioxide gas	7446-09-5	No set value	No set value	5.2mg/m ³ (TWA)

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: Yellow

Odor: irritating odor (sulfur dioxide gas odor)

pH: < 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)

explosion limit : Not applicable

Upper limit: Not applicable

Vapor pressure: No data available

Vapor density: No data available

Specific Gravity: 1.18

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: Sulfur dioxide gas will be generated when mixed with strong acids or heated.
It corrodes metals (iron, copper, aluminum, etc.).

Conditions to avoid: direct sunlight, freezing, heat

Incompatible materials: Strong acids

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): >300mg/kg (calculated value)

Test animals: rats

Local effects

Skin irritation: May be corrosive to skin.

(Primary irritation index PII: no data available)

Eye irritation: May cause serious eye damage.

(Acute eye irritation index: no data available)

Test animals: No data available

Chronic/Long-term Toxicity: Inhalation may cause allergies, asthma or breathing difficulties.
May cause allergic skin reactions.

Carcinogenicity information for component chemicals:

Outside category

Other information: None

Ingredient data (para-phenylenediamine derivatives)

Acute toxicity

Acute oral toxicity (LD50): 400mg/kg

Test animals: rats

Local effects

Skin irritation: Irritating to skin.

(Primary irritation index PII: no data available)

Eye irritation: May cause serious eye damage.

It may cause a rash in some people.

(Acute eye irritation index: no data available)

Test animals: No data available

Chronic toxicity/long-term toxicity: No data available

Carcinogenicity information for component chemicals:

No data

Other information: None

Ingredient Data (Sodium Bisulfite)

Acute toxicity

Acute oral toxicity (LD50): 1310mg/kg

Test animals: rats

Local effects

Skin irritation: Not classifiable.

(Primary irritation index PII: no data available)

Eye irritation: Not classifiable.

(Acute eye irritation index: no data available)

Test animals: No data available

Chronic/Long-term Toxicity: Inhalation may cause allergies, asthma or breathing difficulties.

May cause allergic skin reactions.

Carcinogenicity information for component chemicals:

Outside category

Other information: None

12. Environmental impact information

Product data

Acute toxicity to the aquatic environment: Not classified

Fish toxicity: No data available

Test species: No data available

Chronic toxicity to the aquatic environment: Not classified

Ingredient data (para-phenylenediamine derivatives)

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

Ingredient Data (Sodium Bisulfite)

Acute toxicity to the aquatic environment: Not classified
 Fish Toxicity: 48 -hr LC50 = 119 mg/L
 Test organism: Daphnia magna
 Chronic toxicity to the aquatic environment: Not classified

13. Disposal Considerations

If it is disposed of in its original form, it falls under the category of specially controlled industrial waste (waste acid).

If your company does not have its own wastewater treatment equipment, you can entrust the treatment to a specialized industrial waste treatment company approved by the prefectural governor, by attaching a special industrial waste management form (manifest).

When disposing of a liquid that has been mixed with other parts and adjusted to a usable solution, it is considered industrial waste.

If your company does not have its own wastewater treatment equipment, you can entrust the treatment to a specialized industrial waste treatment company authorized by the prefectural governor, by 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: Specially controlled industrial waste (waste acid)

Water Pollution Control Law: Living Environment Items

Sewerage Law: Restrictions on removal of sewage

14. Transportation Precautions

UN classification: Corrosive substances (Class 8) [Other corrosive substances (inorganic, liquid, acidic)]

Container group III

UN Number: 3264

Emergency Response Guide Number: 154

When transporting goods by sea, the provisions of the Ship Safety Act must be followed.

When transporting goods by air, the provisions of the Aviation Act must be complied with.

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: Sodium hydrogen sulfite

Poisonous and Hazardous Substances Act:	Not applicable
Fire Service Act:	Not applicable
Chemical Substances Management Promotion Act (PRTR Law):	Not applicable
Ship Safety Act:	Other corrosive substances (corrosive substances: Class 8)
Aviation Law:	Other corrosive substances (corrosive substances: Class 8)

16. Other Information

RCF-6 CD-R Mixture

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 Contributing Component
water	90-99	7732-18-5			Not applicable
Potassium phosphate	Less than 3	7778-53-2	1-0452		Not applicable
Sodium organic phosphonate	Less than 1	20592-85-2	2-1867		Not applicable
Sodium sulfite	Less than 1	7757-83-7	1-0502		Not applicable
Triethylene glycol	Less than 3	112-27-6	2-0429		Not applicable
Para-phenylenediamine derivatives	Less than 1	25646-71-3	3-0317		Not applicable

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RCF-6 CD-R Part-B 5L x 4 Liquid volume per unit: 0.10L

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.