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Safety Data Sheets (SDS)

1. Product and Company Information

Product name:	RCF-6 SB-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:

Serious eye damage/eye irritation: Category 2B

Reproductive toxicity: Category 1B

Specific target organ/systemic toxicity
(Single exposure): Category 1

Specific target organ/systemic toxicity
(Repeated exposure): Category 1

Environmental hazards

Aquatic environment acute hazard: 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

Signal word:

Danger

Hazard statement:

Eye irritation (category 2B)

Risk of adverse effects on reproductive function or fetus (Category 1B)

Damage to organs (kidneys, heart, respiratory system, central nervous system) (Category 1 (single exposure))

Damage to organs (heart, respiratory system, central nervous system) through long-term or repeated exposure (Category 1 (repeated exposure))

aquatic life (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 Contributing Component
water	50-70	7732-18-5			Not applicable
Ethylene glycol					
[Safety and Health Notice]	10-20	107-21-1	2-0230		Not applicable ○
Polyoxyethylene					
Nonylphenyl Ether	2.9	9016-45-9	7-0172		Class 1 410 ○
Thiazoline compounds	1-5	Granted	Announced		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: 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	
Ethylene glycol	107-21-1	No set value	No set value	No set value
Polyoxyethylene				
Nonyl phenyl ether	9016-45-9	No set value	No set value	No set value
Thiazoline compounds	Granted	No set value	No set value	No set 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: Almost odorless

pH: 8.1

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: 1.03

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: May react on contact with oxidizing agents.

Hazardous decomposition products: Carbon monoxide, carbon dioxide, sulfur oxides

Other information: None

11. Toxicological information

Product data

Acute toxicity

Acute oral toxicity (LD50): >5000mg/kg (calculated value)

Test animals: rats

Local effects

May be harmful if ingested.

Local effects

Skin irritation: May cause mild irritation.

(Primary irritation index PII: no data available)

Eye irritation: 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:

May harm fertility or the unborn baby

Damage to organs (heart, respiratory system, central nervous system) through long-term or repeated exposure

Carcinogenicity information for component chemicals:

No applicable substances

Other information: None

Ingredient data (Ethylene glycol)

Acute toxicity

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

Test animals: rats

Local effects

Skin irritation: Mild skin irritation

(Primary irritation index PII: no data available)

Test animals: rabbits

Eye irritation: Eye irritation

(Acute eye irritation index: no data available)

Test animals: rabbits

Chronic and long-term toxicity: May have adverse effects on fertility or the unborn child.

Damage to organs (central nervous system, respiratory system, heart) 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: Not classified

Ingredient data (Polyoxyethylene nonylphenyl ether)

Acute toxicity to the aquatic environment: Very toxic to aquatic organisms (category 1)

Fish Toxicity: 96-hr LC50 = 1.0 mg/L

Test species: Brown trout

Chronic toxicity to the aquatic environment: Not classified

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: Ethylene glycol

Poisonous and Hazardous Substances Act: Not applicable

Fire Service Act: Not applicable

Chemical Substances Management Promotion Act

(PRTR Law): Polyoxyethylene nonylphenyl ether

Class 1 designated chemical substance Cabinet Order No. 410

Ship Safety Act: Not applicable

Aviation Law: Not applicable

16. Other Information

RCF-6 SB-R 5L x 4 Liquid volume per unit: 0.05L

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
