

Safety Data Sheet

1. Product and Company Information

Product name	: CHLORINE TEST PAPER (0-10ppm)
Company	: Toyo Roshi Kaisha, Ltd.
Head office	: 1-18-10 Otowa, Bunkyo-ku, Tokyo, 112-0013 Japan
Section in charge	: Quality Assurance Room
Phone	: 81-(0)3-5981-0577
Fax	: 81-(0)3-5981-0583
Emergency contact number	: Same as above
Recommended application and limitation	: Measurement of hypochlorous acid and hypochlorite ions
Reference No.	: MC-0030J-3

2. Hazard Summary

GHS Classification	
Physical hazard	: Not applicable.
Human health hazard	
Acute toxicity (Oral)	: Not classified.
Skin corrosion/ Irritation	: Category 2.
Serious eye damage and eye irritation	: Class 2A.
Environmental hazard	: Classification is not possible.
Label element	
Signal words	: Warning.
Hazard statements	: Causes skin irritation. Strong causes Eye irritation.
Precautionary statements	
Safety measure	: Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Use appropriate protective gloves, eye protection, protective clothing, face protection, and protective mask.
First aid measures	: In case of skin contact, wash with plenty of soap and water. In case of skin irritation, consult with a physician for treatment. In case of eye contact, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case eye irritation continues, consult with a physician for treatment. In case of ingested, and feeling ill, consult with a physician. Make sure to rinse mouth. Wash hands thoroughly after handling.

3. Composition and Information on ingredients

Single substance/Mixtures	: Mixtures	
Chemical name or general name	: Test Paper	
Ingredients and Content	: Cellulose	(Base paper)
	EDTA · 2Na	(Reagent)
	EDTA · 4Na	(Reagent)
	Bis(2-ethylhexyl) Sulfosuccinate Sodium Salt	(Reagent)
	Citric Acid	(Reagent)
	Trisodium Citrate Dihydrate	(Reagent)
	Chemical formula or structural formula	: Cellulose
	EDTA · 2Na	C ₁₀ H ₁₄ N ₂ Na ₂ O ₈ · 2H ₂ O
	EDTA · 4Na	C ₁₀ H ₁₂ N ₂ Na ₄ O ₈ · 4H ₂ O
	Bis(2-ethylhexyl) Sulfosuccinate Sodium Salt	C ₂₀ H ₃₇ NaO ₇ S
	Citric Acid	C ₆ H ₈ O ₇
	Trisodium Citrate Dihydrate	C ₆ H ₉ Na ₃ O ₉
Reference Number in Gazetted List in Japan		
Law Concerning the Evaluation of Chemical Substances and Regulation of Their		
Manufacture, etc.	: EDTA · 2Na	(2)-1265
	EDTA · 4Na	(2)-1265
	Bis(2-ethylhexyl) Sulfosuccinate Sodium Salt	(2)-1623
	Citric Acid	(2)-1318
	Trisodium Citrate Dihydrate	(2)-1323
Japan's Industrial Safety and Health Law :	_____	
CAS No.	: Cellulose	9004-34-6
	EDTA · 2Na	6381-92-6
	EDTA · 4Na	13235-36-4
	Bis(2-ethylhexyl) Sulfosuccinate Sodium Salt	577-11-7
	Citric Acid	77-92-9
	Trisodium Citrate Dihydrate	6132-04-3
UN Classification	: _____	
UN No.	: _____	

4. First Aid Measures

Eye contact	: Rinse cautiously with water for several minutes.
Skin contact	: Immediately rinse the adhesion area and/or contact area with a copious amount of clean running water. In case of abnormality, see a doctor.
Inhalation	: Not applicable.
Ingestion	: If feeling ill, consult with a physician for treatment. Make sure to rinse mouth.

5. Fire Fighting Measures

Extinguishing procedure	: Take the same procedure as a general fire.
Unacceptable extinguishing media	: No data available.
Extinguishing media	: Plenty of water (spray), alcohol resistance, dry chemicals, carbon dioxide, foam chemicals, and halogen media.

6. Accidental Release Measures

Personal precautions	: No data available.
Protective equipment and emergency procedures	: No data available.
Precautions for environment	: No data available.
Collection/neutralization	: No data.
Follow [Disposal Considerations] when disposing of the collected material.	

7. Handling and Storage

Handling	: To use promptly after opening. To use in expiration date (Described on the label. One year from the date of manufacture).
Storage	: Avoid direct sunlight, well-ventilated place, seal and avoid contact. Do not store with oxides.

8. Exposure controls / Personal protection

Administrative concentration	: _____
Acceptable concentration	
Japan Society for Occupational Health	: _____
ACGIH	: _____
Facility provision	: _____
Protective equipment	: Use appropriate protective tools if necessary.

9. Physical and Chemical Properties

Appearance (Physical property, shape, color, etc.)	: White.
Odour	: None.
pH	: No data.
Melting point /Freezing point	: No data.
Flash point	: No data.
Explosive limit Upper limit	: No data.
Lower limit	: No data.
Relative density	: No data.
Solubility	: No data.
Spontaneous ignition point	: No data.
Decomposition temperature	: No data.
Flammability (Solid, gas)	: Yes.

10. Stability and Reactivity

Stability, Reactivity	: Stable under normal handling.
Possibility of hazardous reactions	: No data.
Conditions to avoid	: Direct sunlight, ultraviolet, wetting, high temperature, high humidity, open-air storage.
Incompatible materials	: Oxidizers, strong bases, copper, copper alloy, nickel.
Hazardous decomposition products	: Carbon monoxide, Carbon dioxide, Nitrogen oxides, Sulfur oxide.

11. Toxicological Information

Acute toxicity (Oral)	: Not classified. (as mixtures) Due to added result, acute toxicity estimated value (ATE) of above component in composite is determined. (as a single substance) Category 4. (EDTA • 2Na) Category 4. (EDTA • 4Na) Category 4. [Bis(2-ethylhexyl) Sulfosuccinate Sodium Salt.] Category 5. (Citric Acid)
(Dermal)	: Not classified. Due to added result, acute toxicity estimated value (ATE) of above component in composite is determined.
(Inhalation: gas)	: Not applicable. Determined due to component concentration of mixture.
(Inhalation: vapour)	: Not applicable. Determined due to component concentration of mixture.
(Inhalation: dust, mist)	: Classification is not possible due to lack of data.
Skin corrosion/ Irritation	: Category 3. (as mixtures) (as a single substance) Category2 Rabbits 80% Water paste Skin irritation after 20 hours: Strong redness, after 8 days: skin peeling. (EDTA • 4Na) Category 2. [Bis(2-ethylhexyl) Sulfosuccinate Sodium Salt] Category 2. (Citric Acid)
Serious eye damage and eye irritation	: Not classified. (as mixtures) (as a single substance) Class2A Rabbits 80% Water paste eyes irritation are irritant. There is remarkable redness, turbidity, edema, inflammation, slight dependence on turbidity even after 8 days. (EDTA • 4Na) Class2A. [Bis(2-ethylhexyl) Sulfosuccinate Sodium Salt] Category 2 Irritation was observed in eye irritation test using Rabbits. (Trisodium Citrate Dihydrate) Class2A. (Citric Acid)
Respiratory/ Skin sensitization	: Classification is not possible due to lack of data.
Germ cell mutagenicity	: Classification is not possible due to lack of data.
Carcinogenicity	: Classification is not possible due to lack of data.
Reproductive toxicity	: Classification is not possible due to lack of data.
Specific target organ toxicity - Single exposure	: Classification is not possible due to lack of data.
Specific target organ toxicity - Repeated exposure	: Classification is not possible due to lack of data.
Aspiration hazard	: Classification is not possible due to lack of data.
Other	: RTECS No WNO525000 [Bis(2-ethylhexyl) Sulfosuccinate Sodium Salt]

12. Ecological Information

Ecotoxicity

Hazardous to the aquatic environment (acute)

: Classification is not possible due to lack of data.

(as a single substance)

Category 3.

(as EDTA · 2Na, EDTA · 4Na)

Hazardous to the aquatic environment (chronic)

: Classification is not possible due to lack of data.

Persistence and Degradability

: No data.

Bioaccumulative potential

: No data.

Mobility in soil

: No data.

Ozone layer hazard

: Classification is not possible due to lack of data.

Others

: Do not dispose or release to ocean or any other water area preventing environmental contamination and intake by marine and bird life.

13. Disposal Considerations

Dispose in accordance with federal, state and local regulations.

Just like disposal of general industrial waste, ask for industrial waste disposer accepted by prefectural governors or for a local public agency for disposal.

When incinerating the material, use the specific incineration facility. Take appropriate procedure that satisfies Clean Air Act, Waste Disposal and Public Cleaning Law, and Clean Water Law. (We recommend disposing the material as industrial waste.)

14. Transport Information

15. Regulatory Information

No data available.

16. Other information

Handling of written contents

Contents of this data sheet are based on materials, information, and data acquirable at this point and are subject to revision due to new knowledge.

In addition, contents such as contained amount, physical and chemical properties, and hazards identification are not subject of any guarantee. These precautions are applied only during standard handling. If the material is used in a special way, take appropriate safety measures that correspond to actual applications and usages.

Each user is responsible to take appropriate measures with due consideration of contents in this sheet.

Please note that this Material Safety Data Sheet is created according to Japanese law.

List of references

- Hazard communication of chemicals based on GHS - Labelling and Safety Data Sheet (SDS) (JIS Z 7253: 2012)