Humidity Test Paper Toyo Roshi Kaisha, Ltd. 1/5
Issued Date: January 4, 2001

Revised Date: September 20, 2017

Safety Data Sheet

1. Product and Company Information

Reference No.: MC-1001J-11

Product name : Humidity Test Paper Company : Toyo Roshi Kaisha, Ltd.

Head office : 1-18-10 Otowa, Bunkyo-ku, Tokyo, 112-0013 Japan

Section in charge : Quality Assurance Division

Phone : 81-(0)3-5981-0577

Fax : 81-(0)3-5981-0583

Emergency contact number : Same as above

Recommended application and limitation: Measurement of humidity

Measurement of moisture content

Reference No. : MC-1001J-11

2. Hazard Summary

GHS Classification

Physical hazard : Not applicable.

Human health hazard

Acute toxicity (Oral) : Category 4.

(Dermal) : Not classified. (Inhalation: gas) : Not applicable. (Inhalation: vapour) : Not applicable.

Respiratory/ Skin sensitization : Respiratory, Skin sensitization Category 1.

Carcinogenicity : Category 2. Reproductive toxicity : Category 2.

Environmental hazard

Hazardous to the aquatic environment (acute)

: Category 2.

Hazardous to the aquatic environment (chronic)

: Category 2.

Label element

Pictograms or symbols :



Signal words : Danger.

Hazard statements : Harmful if swallowed.

May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

May cause an allergic skin reaction. Limited carcinogenic concerns.

Suspected of damaging fertility or the unborn child.

Toxic to aquatic life

Toxic to aquatic life with long lasting effects

Precautionary statements

Safety measure : Wash hands thoroughly after handling.

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

In case of inadequate ventilation wear respiratory protection.

Avoid breathing dust.

Wear protective gloves, protective clothing, and eye

protective.

Contaminated work clothing should not be allowed out of

the work place.

Obtain special instructions before use.

Do not handle until all safety precautions have been read

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and understood.

Avoid releasing to the environment.

First aid measures : If ingested, and feeling ill, consult with a physician.

Make sure to rinse mouth thoroughly.

If experiencing respiratory symptoms: Contact a doctor. In case of skin contact, wash with plenty of soap and water. In case of skin irritation or eruptions, consult with a

physician for treatment.

Wash contaminated clothing before reuse.

In case of exposure or care for exposure, consult with a

physician for treatment.

Collect spillage.

3. Composition and Information on ingredients

Single substance/Mixtures : Mixtures
Chemical name or general name : Test Paper

Ingredients and Content : Cellulose (Base paper)

: Cobalt(II) chloride · hexahydrate (Reagent)

Chemical formula or structural formula : Cellulose $[C_6H_{10}O_5]_n$

Cobalt(II) chloride · hexahydrate CoCl₂ · 6H₂O

Reference Number in Gazetted List in Japan

Law Concerning the Evaluation of Chemical Substances and Regulation of Their

Manufacture, etc. : Cobalt(II) chloride · hexahydrate (1) -207
Japan's Industrial Safety and Health Law : Cobalt(II) chloride · hexahydrate 172
CAS No. : Cellulose 9004-34-6

: Cobalt(II) chloride · hexahydrate 7791-13-1 : Cobalt(II) chloride · hexahydrate Class9

: Cobalt(II) chloride · hexahydrate 3077
This mixture is not applicable to the U.N. classification.

4. First Aid Measures

UN No.

UN Classification

Eye contact : Immediately wash thoroughly with clean running water.

Then, consult with a physician.

Skin contact : Wash with plenty soap and water.

Inhalation : Not applicable.

Ingestion : When feeling ill, contact a doctor.

Make sure to rinse mouth thoroughly.

If experiencing respiratory symptoms: Contact a doctor.

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), 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 available.

Follow [Disposal Considerations] when disposing of the collected material.

Reference No.: MC-1001J-11 **Humidity Test Paper** Toyo Roshi Kaisha, Ltd. 3/5 Issued Date: January 4, 2001 Revised Date: September 20, 2017 7. Handling and Storage Handling Storage : In order to prevent the alteration and/or deterioration caused by moisture absorption, seal the container tightly and store the container at a cool and dark place. Do not store with oxides and/or organic peroxides. 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.) : Blue - light red Odour : None. : No data available. pН Melting point /Freezing point : No data available. Flash point : No data available. Explosive limit Upper limit : No data available. Lower limit : No data available. Relative density : No data available. Solubility : No data available. Spontaneous ignition point : No data available. Decomposition temperature : No data available. Flammability (Solid, gas) : Yes. 10. Stability and Reactivity Stability, Reactivity : Stable under normal handling. Possibility of hazardous reactions : No data available. Conditions to avoid : Direct sunlight, ultraviolet light, wetting, high temperature, high humidity, open-air storage. Incompatible materials : Oxidizers. Hazardous decomposition products : Carbon monoxide, carbon dioxide, Cobalt oxide, Chlorine, Chlorine oxide. 11. Toxicological Information Acute toxicity (Oral) : Category 4. (as mixtures) Due to added result, acute toxicity estimated value (ATE) of above component in composite is determined. (as a single substance) Category 4 RAT ORL LD₅₀=766mg/kg (Cobalt(II) chloride · hexahydrate) (Dermal) : Not classified. (as mixtures) Due to added result, acute toxicity estimated value (ATE) of above component in composite is determined.

Determined due to component concentration of mixture.

: Not applicable.

: Not applicable.

: Classification is not possible due to lack of data.

Determined due to component concentration of mixture.

(as mixtures)

(as mixtures)

(Inhalation: gas)

(Inhalation: vapour)

(Inhalation: dust, mist)

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Skin corrosion/Irritation : Classification is not possible due to lack of data.

Serious eye damage and eye irritation : Classification is not possible due to lack of data.

: Category 1. Respiratory, Skin sensitization. (as mixtures) Respiratory/ Skin sensitization

(as a single substance)

Category 1. Respiratory, Skin sensitization.

Cobalt compound is categorized in skin sensitization material and respiratory sensitization material of a first

group by Japan Society of Occupational Health.

Skin disorders · Airway / lung injuries might be caused by the occupational disease chemical (cobalt and its compound)

as reported by the Japanese Labor Standards Act.

(Cobalt(II) chloride · hexahydrate)

Germ cell mutagenicity : Classification is not possible due to lack of data.

Carcinogenicity : Category 2. (as mixtures)

(as a single substance)

Category 2 Limited carcinogenic concerns.

IRAC 2B.

(Cobalt(II) chloride · hexahydrate)

Reproductive toxicity : Category 2. (as mixtures)

(as a single substance)

Category 2 There is description about reproductive toxicity test results. (CICAD, 2006) (Cobalt(II) chloride · hexahydrate)

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.

: Classification is not possible due to lack of data. Aspiration hazard

12. Ecological Information

Ecotoxicity

Hazardous to the aquatic environment (acute)

: Category 2. (as mixtures)

(as a single substance)

Category 2 Freshwater fish LC₅₀=5.7~1344mg/L/96H

(as Cobalt(II) chloride · hexahydrate)

Hazardous to the aquatic environment (chronic)

: Category 2. (as mixtures)

(as a single substance)

(as Cobalt(II) chloride · hexahydrate) Category 2

Persistence and Degradability : No data available. Bioaccumulative potential : No data available. Mobility in soil : No data available.

Ozone layer hazard : Classification is not possible due to lack of data. Other

: Do not dispose or release to ocean or any other water

area preventing environmental contamination and intake

by marine and bird life.

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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

Industrial Safety and Health Law

: Article 57-1 Cabinet order 18, "Hazardous substances that names are to be viewed" (Cobalt(II) chloride · hexahydrate) Article 57-2 Cabinet order 18-2, Appendix 9 "Hazardous substances that names are to be reported" (Cabinet order 172 cobalt and its compounds)

Law concerning Pollutant Release and Transfer Register

: Class 1 designated

(Cabinet order 132 Cobalt(II) chloride · hexahydrate)

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)