Issue date: 11/18/2003
Revision date: 6/13/2024

# Safety Data Sheet

## 1. Chemical product and company identification

| | | |
|---|---|---|
| Product name | : | Yttrium acetate tetrahydrate, 4N |

### Company information

| | | |
|---|---|---|
| Name of manufacturer | : | KANTO CHEMICAL CO., INC. |
| Address | : | 2-1, Nihonbashi, Muromachi 2-Chome, Chuo-Ku, Tokyo, 103-0022, JP |
| Name of section | : | Business Administration Department, Reagent Division |
| Telephone number | : | +81-3-6214-1090 |
| Facsimile number | : | +81-3-3241-1047 |
| Mail address | : | BC32@kanto.co.jp |
| Reference No | : | 47016 |
| Recommended use | : | For research use only |
| Restrictions on use | : | Seek expert judgment when using the product for applications other than those recommended. |

## 2. Hazards identification

### GHS classification

Health hazards Specific target organ toxicity (single exposure) Category 2 (lung)

Hazard pictograms

| | | |
|---|---|---|
| Signal word | : | Warning |
| Hazard statements | : | May cause damage to organs (lung) |

### Precautionary statements

| | | |
|---|---|---|
| Prevention | : | Do not breathe dust.<br>Wash hands, forearms and face thoroughly after handling.<br>Do not eat, drink or smoke when using this product. |
| Response | : | IF exposed or concerned: Call a POISON CENTER or doctor. |
| Storage | : | Store locked up. |
| Disposal | : | Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. |

## 3. Composition/information on ingredients

| | | |
|---|---|---|
| Distinction of substance or mixture | : | Substance |

| Chemical name | Concentration (%) | Formula | TSCA | EC-No. | CAS RN |
|---|---|---|---|---|---|
| Yttrium acetate tetrahydrate | ≥ 99.99 | Y(CH3COO)3·4H2O | Listed | 245-612-0 | 23363-14-6 |

## 4. First aid measures

### First aid measures

First-aid measures after inhalation : Remove the victim to fresh air, and make him blow his nose and gargle.

First-aid measures after skin contact : Wash the affected areas under running water.

First-aid measures after eye contact : Wash the affected areas under running water.

First-aid measures after ingestion : Give the victim water or salt water and make him vomit. Get medical attention.

Personal Protection in First Aid and Measures : Rescuers should wear proper protective equipment like rubber gloves, goggles.

## 5. Fire fighting measures

Suitable extinguishing media : Water, dry chemical powder, carbon dioxide, dry sand, foam

Unsuitable extinguishing media : None

Firefighting instructions : Move containers from fire area if it can be done without risk, if not possible, apply water from a safe distance to cool and protect surrounding area.

Fight fire from windward.

Dry chemical powder, carbon dioxide or dry sand should be used for small fires. Foam extinguisher is effective for a large scale fire.

Personal protection (Emergency response) : Wear breathing apparatus.

## 6. Accidental release measures

### Personal Precautions, Protective Equipment and Emergency Procedures

General measures : Wear proper protective equipment and avoid contact with skin and inhalation of dust. Conduct operations from upwind and evacuate people downwind.

### Environmental precautions

Environmental precautions : Attention should be given to avoid discharge of spilled product into rivers and resulting environmental damage. When diluting spill with large amounts of water, discharge of untreated wastewater into the environment must be avoided.

### Methods and Equipment for Containment and Cleaning up

For containment : Sweep up in a chemical waste container. Flush contaminated area with copious amounts of water.

## 7. Handling and storage

### Handling

Technical measures : Wear appropriate protective equipment to avoid contact with skin

or inhalation of dust.

Precautions for safe handling : Avoid formation of dust and aerosols.

**Storage**

Storage conditions : Store in a refrigerator and tightly closed (0-6℃).

Material used in packaging/containers : Glass, polyethylene, polypropylene.

## 8. Exposure controls / Personal protection equipment

| | |
|---|---|
| ACGIH TWA | 1 mg/m³ (as Y) |

Appropriate engineering controls : Install a local ventilation system in case of dusty condition.

**Protective equipment**

Respiratory protection : If necessary, wear dust mask

Hand protection : Impervious protective gloves

Eye protection : Safety goggles

Skin and body protection : Protective clothing, protective boots

## 9. Physical and chemical properties

Physical state : Solid

Color : White

Odor : Odorless

pH : No data available

Melting point : No data available

Freezing point : No data available

Boiling point : No data available

Flash point : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability : Flammable solid

Vapor pressure : No data available

Relative density : No data available

Density : No data available

Relative gas density : No data available

Solubility : Water: Soluble.

Partition coefficient n-octanol/water (log Pow) : No data available

Explosive limits (vol %) : No data available

Viscosity, kinematic : No data available

Particle characteristics : No data available

## 10. Stability and reactivity

Reactivity : May react with oxidizing substances.

Chemical stability : Stable under normal conditions.

Possibility of hazardous : Stable under normal conditions of use.

reactions

| | | |
|---|---|---|
| Conditions to avoid | : | Light, heat. |
| Incompatible materials | : | Oxidizing substances. |
| Hazardous decomposition products | : | Carbon monoxide. |

## 11. Toxicological information

| | | |
|---|---|---|
| Acute toxicity (oral) | : | Classification not possible |
| Acute toxicity (dermal) | : | Classification not possible |
| Acute toxicity (inhalation) | : | No classification (gas)<br>No classification (vapor)<br>Classification not possible (dust, mist) |
| Skin corrosion/irritation | : | Classification not possible<br>May cause skin irritation. |
| Serious eye damage/irritation | : | Classification not possible<br>May cause eye irritation. |
| Respiratory sensitization | : | Classification not possible |
| Skin sensitization | : | Classification not possible |
| Germ cell mutagenicity | : | Classification not possible |
| Carcinogenicity | : | Classification not possible |
| Reproductive toxicity | : | Classification not possible |
| STOT-single exposure | : | May cause damage to organs (lung)<br>In an animal, inhalation exposure to rare earth metals of causing inflammation in lungs is clear. There is the description, inhalation exposure of yttrium is considered to cause inflammation by local irritation to lung, and it is classified into category 2 (lung). |
| STOT-repeated exposure | : | Classification not possible<br>Although there is a description that "chronic exposures of a rare earth metal probably causes pneumoconiosis to humans.", it cannot be classified because of insufficient data. |
| Aspiration hazard | : | Classification not possible |

## 12. Ecological information

### Ecotoxicity

| | | |
|---|---|---|
| Aquatic acute | : | Classification not possible |
| Aquatic chronic | : | Classification not possible |

### Persistence and degradability

No additional information available

### Bioaccumulative potential

No additional information available

### Mobility in soil

No additional information available

### Hazardous to the ozone layer

| | | |
|---|---|---|
| Ozone | : | Classification not possible |

## 13. Disposal considerations

| | | |
|---|---|---|
| Ecological waste information | : | Mixed with flammable organic solvents and burn in a chemical |

| | | |
|---|---|---|
| | | incinerator equipped with an afterburner and a scrubber. Or entrust approved waste disposal companies with the disposal. |
| Contaminated container and packaging | : | In case of disposal of empty bottles, dispose bottles after removing the content thoroughly. |

## 14. Transport information

**International Regulations**

**Transport by sea(IMDG)**

| | | |
|---|---|---|
| UN-No. (IMDG) | : | Not applicable |
| Proper Shipping Name (IMDG) | : | Not applicable |
| Packing group (IMDG) | : | Not applicable |
| Transport hazard class(es) (IMDG) | : | Not applicable |

**Air transport(IATA)**

| | | |
|---|---|---|
| UN-No. (IATA) | : | Not applicable |
| Proper Shipping Name (IATA) | : | Not applicable |
| Packing group (IATA) | : | Not applicable |
| Transport hazard class(es) (IATA) | : | Not applicable |
| Marine pollutant | : | Not applicable |

## 15. Regulatory information

Regulatory information with regard to this substance in your country or region should be examined by your own responsibility.

## 16. Other information

| | | |
|---|---|---|
| Data sources | : | Encyclopaedia Chimica, Kyoritsu Shuppan Co, Ltd. (1963) . NITE Chemical Risk Information Platform (NITE-CHRIP), National Institute of Technology and Evaluation. |

The information contained herein is based on several references and the present state of our knowledge. However the SDS does not always cover all information about the product, handle the product carefully.The information is intended to ordinary usage, in case of particular handlings, conduct appropriate safety measurements.The information herein is only provision of information, and it does not represent a guarantee the properties of the product.The Safety Data Sheet(SDS) is prepared based on JIS Z7253.