Revision date: 5/18/2021

Safety Data Sheet

1. Chemical product and company identification

Product name : Ferric citrate

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 : Reagent Division, Food Science Section

Telephone number : +81-3-6214-1093
Facsimile number : +81-3-3241-1054
Mail address : food-info@kanto.co.jp

Reference No : 58005

Recommended uses and : Food additives

restrictions

2. Hazards identification

GHS classification

Health hazards Skin corrosion/irritation Category 2

Specific target organ toxicity Category 3 (respiratory tract irritation)

(single exposure)

Hazard pictograms



Signal word : Warning

Hazard statements : Causes skin irritation

May cause respiratory irritation

Precautionary statements

Prevention : Avoid breathing dust.

Wash hands, forearms and face thoroughly after handling.

Use only outdoors or in a well-ventilated area.

 $We ar \ protective \ gloves/protective \ clothing/eye \ protection/face$

protection.

Response : IF ON SKIN: Wash with plenty of water.

IF INHALED: Remove person to fresh air and keep comfortable for

breathing

Call a POISON CENTER or doctor if you feel unwell. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Storage : Store in a well-ventilated place. Keep container tightly closed.

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.

Revision date: 5/18/2021

3. Composition/information on ingredients

Distinction of substance or

mixture

: Substance

Chemical name	Concentration (%)	Formula	TSCA	EC-No.	CAS RN
Iron(Ⅲ) citrate n- hydrate	100	FeC6H507 • nH20	Listed	219-045-4	2338-05-8

*Concentration: 15.0 - 20.0% (as Fe).

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

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

Unsuitable extinguishing media

Water, carbon dioxide, dry chemical powder, foam, dry sand

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.

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

Personal protection (Emergency

response)

: Firefighters should wear protective equipment.

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 damage to the environment by flowing of spillage to rivers.

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.



Revision date: 5/18/2021

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 dark, cool place and tightly closed.

Material used in : Glass, polyethylene, polypropylene.

packaging/containers

8. Exposure controls / Personal protection equipment

ACGIH TWA 1 mg/m³ (as Fe)

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 : Brown - dark orange

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 : 200 - 250 ° C

Decomposition temperature : It becomes 1.5 hydroxide at 130 °C and becomes anhydrous at 150 °C.

Flammability (solid, gas) : Noncombustible
Flammability (solid, gas) : Flammable solid
Vapor pressure : No data available

Relative density : ≈ 1.8

Density : No data available
Relative gas density : No data available

Solubility : Water : Practically insoluble. Soluble in hot water. Organic

: No data available

solvents; Insoluble in ethanol.

Partition coefficient n-

octanol/water (log Pow)

Explosive limits (vol %) : No data available
Viscosity, kinematic: : No data available
Particle characteristics : No data available

Revision date: 5/18/2021

10. Stability and reactivity

Reactivity : It is highly photosensitive and decomposes by light.

Chemical stability : Stable under normal conditions.

Possibility of hazardous

Respiratory sensitization

Skin sensitization

Carcinogenicity

Germ cell mutagenicity

reactions

: May react violently when in contact with oxidizing substances.

Conditions to avoid : Light, heat.

Incompatible materials : Oxidizing substances.

Hazardous decomposition : Carbon monoxide, iron oxides.

products

11. Toxicological information

Acute toxicity (oral) Classification not possible Acute toxicity (dermal) Classification not possible Acute toxicity (inhalation) : No classification (gas)

> Classification not possible (vapor) Classification not possible (dust, mist)

Skin corrosion/irritation : Causes skin irritation

> There is no this product data. But soluble iron salt is supposed to indicate the skin irritation (ACGIH-TLV). It was classified into

category 2.

Serious eye damage/irritation : Classification not possible

> May cause eye irritation. Classification not possible Classification not possible : Classification not possible : Classification not possible

: Classification not possible Reproductive toxicity STOT-single exposure May cause respiratory irritation

> There is no this product data. Based on the evidence that soluble iron salts are respiratory tract irritants (ACGIH-TLV), it was classified into category 3 (respiratory tract irritation).

> The main symptoms caused by overdose of medical iron preparations are gastrointestinal symptoms such as vomiting, diarrhea, and bloody stool due to gastric mucosal irritation. In addition, movement disorders, decreased blood pressure, etc. are observed. Iron poisoning is less likely to occur in adults, but in children, oral administration of 1 g of iron (II) sulfate causes toxicity.

: Classification not possible

STOT-repeated exposure 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

Revision date: 5/18/2021

Mobility in soil

No additional information available

Hazardous to the ozone laver

Ozone : Classification not possible

13. Disposal considerations

Ecology - waste materials : Bury in a landfill site approved for the disposal of chemical

and hazardous wastes. 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)

Air transport(IATA)

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

(IATA)

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 : Dictionary of Organic Compounds, The society of Synthetic

Not applicable

Organic Chemistry, Kodansha Ltd. (1985).

Encyclopaedia Chimica, Kyoritsu Shuppan Co, Ltd. (1963). Handbook of 17221 Chemical Products, The Chemical Daily

Co. (2021).

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.