JUNSEI Material safety data sheet

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Catalog Numbers: 18511
Catalog Name: (Food additive) Ferric chloride
Company Identification:
Junsei Chemical Co., Ltd.
4-16, 4-Chome, Nihonbashi-Honcho, Chuo-ku
Tokyo, 103-0023 JAPAN
EMERGENCY TELEPHONE NUMBER: +81-48-988-3621
Sales Headquarters
6, 1-Chome, Ohmano-cho, Koshigaya, Saitama 343-0844, JAPAN
FAX: +81-48-988-8719 E-mail: shiyaku-t@junsei.co.jp
Web: http://www.junsei.co.jp/

CREATION DATE: April 5, 2012

SECTION 2 COMPOSITION, INFORMATION ON INGREDIENTS

COMPONENT: Ferric chloride
SYNONYMES: Iron(III) chloride hexahydrate
CAS NUMBER:10025-77-1, 7705-08-0(anhydrous)
EC NUMBER (EINECS): unlisted
JAPAN NUMBER (ENCS): 1-213
PERCENTAGE: 98.5+%

SECTION 3 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Harmful if swallowed. Causes burns. Harmful. Corrosive. Hygroscopic.

Potential Health Effects

Eye:

May cause eye burns.

Skin:

Exposure may cause irritation and possible burns.

Ingestion:

May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated. May be harmful if swallowed.

Based upon known information concerning inorganic iron-containing substances, may cause severe digestive tract irritation with nausea, vomiting, diarrhea, and hemorrhage. May cause delayed effects including cardiovascular disturbances, liver/kidney damage, cerebral swelling, coma, and

Inhalation:
May cause severe irritation of the upper respiratory tract with pain, burns, and inflammation.
Chronic:
Not available.
Repeated exposure may cause an increased body load of iron, with possible chronic systemic effects.

SECTION 4 FIRST AID MEASURES

Eyes:
Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
Skin:
Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.
Ingestion:
Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid immediately.
Inhalation:
Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
Notes to Physician:
Treat symptomatically and
Antidote:
The use of an iron chelator should be determined only by qualified medical personnel.

SECTION 5 FIRE FIGHTING MEASURES

General Information:
As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Substance is noncombustible.
Extinguishing Media:
Use extinguishing media most appropriate for the surrounding fire.

SECTION 6 ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks:
Vacuum or sweep up material and place into a suitable disposal container.

SECTION 7 HANDLING AND STORAGE

Handling:

Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Use only in a chemical fume hood.

Storage:

Store in a cool, dry place. Store in a tightly closed container. Corrosives area.

SECTION 8 EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Personal Protective Equipment

Eyes:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Granules
Appearance:	ochre
Odor:	Not available.
pH:	Not available.
Vapor Pressure:	Not available.
Viscosity:	Not available.
Boiling Point:	280 - 285 deg C @ 760.00mm Hg
Freezing/Melting Point:	37 deg C
Autoignition Temperature:	Not available.
Flash Point:	Not available.
Explosion Limits, lower:	Not available.
Explosion Limits, upper:	Not available.
Decomposition Temperature:	
Solubility:	920 G/L IN WATER (20-C)

Specific Gravity/Density:
Molecular Formula: FeCl3.6H2O
Molecular Weight: 270.29

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability:
Stable under normal temperatures and pressures.
Conditions to Avoid:
Incompatible materials, exposure to moist air or water.
Incompatibilities with Other Materials:
Strong oxidizing agents, allyl chloride, potassium, sodium.
Hazardous Decomposition Products:
Hydrogen chloride.
Hazardous Polymerization: Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

RTECS#:
CAS# 10025-77-1 unlisted.
LD50/LC50:
Not available.
Carcinogenicity:
Iron(III) chloride hexahydrate, pure, granulated -
Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
Other:
See actual entry in RTECS for complete information.

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity:
Invertebrate toxicity:
EC50 (2 and 4 day Aselllus aquaticus 183 and
124 mg/l respectively
EC50 (2 and 4 day) Crangonyx pseudogracilis 160
and 120 mg/l respectively [Martin, T. R. et al Water Res. 1986,
20(9), 1137-1147]

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

SECTION 14 TRANSPORT INFORMATION

IATA Shipping Name: CORROSIVE SOLID, ACIDS, INORGANIC,N.O.S.
Hazard Class: 8 (Corrosive substances)
UN Number: 3260
Packing Group: III

IMO Shipping Name: CORROSIVE SOLID, ACIDS, INORGANIC,N.O.S.
Hazard Class: 8 (Corrosive substances)
UN Number: 3260
Packing Group: III
RID/ADR Shipping Name: CORROSIVE SOLID, ACIDS, INORGANIC,N.O.S.
Hazard Class: 8 (Corrosive substances)
UN Number : 2586
Packing Group: III

SECTION 15 REGULATORY INFORMATION

European/International Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols: C
Risk Phrases:
R 22 Harmful if swallowed.
R 34 Causes burns.
Safety Phrases:
S 25 Avoid contact with eyes.
S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
WGK (Water Danger/Protection)
CAS# 10025-77-1: No information available.
United Kingdom Occupational Exposure Limits

Canada
None of the chemicals in this product are listed on the DSL/NDSL list.
CAS# 10025-77-1 is not listed on Canada's Ingredient Disclosure List.
Exposure Limits
CAS# 10025-77-1: OEL-DENMARK:TWA 1 mg(Fe)/m3 JANUARY 1993
OEL-FINLAND:TWA 1 mg(Fe)/m3 JANUARY 1993
OEL-THE NETHERLANDS:TWA 1 mg(Fe)/m3 JANUARY 1993
OEL-SWITZERLAND:TWA 1 mg(Fe)/m3 JANUARY 1993
OEL-UNITED KINGDOM:TWA 1 mg(Fe)/m3;STEL 2 mg(Fe)/m3 JANUARY 1993
US FEDERAL
TSCA
CAS# 10025-77-1 is not on the TSCA Inventory. It is a hydrate and exempt from TSCA Inventory requirements (40CFR720.3(u)(2)).

SECTION 16 OTHER INFORMATION

REFERENCES:
—The Merck Index 14 edition, Monographs No. 4019
—Chemical Risk Information Platform (CHRIP)
—Information about the status of the implementation of GHS in Japan (ID= 831)

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.
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