

# **Material Safety Data Sheet**

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# Section 1 - Product and Company Information

**Product Name** Product Number

Brand

Fax:

iron-Dextran D8517 Sigma Chemical

Company Address City, State, Zip, Country **Technical Phone:** 

Sigma-Aldrich 3050 Spruce Street

SAINT LOUIS, MO 63103 US 800-325-5832 800-325-5052

**Emergency Phone:** 

314-776-6555

EC no

# Section 2 - Composition/Information on Ingredient

**Substance Name** 

CAS#

**SARA 313** 

Annex I Index Number

IRON DEXTRAN Ingredient Name PHENOL STAB.

9004-66-4 CAS#

108-95-2

<u>Percent</u>

No <= 0.500 %

**SARA 313** Yes

Formula Synonyms

A 100, A 100 (Pharmaceutical), B 75, Chinofer, Dextran iron complex, Dextrofer 75, Eisendextran (German), Fe-Dextran, Fenate, Ferdex 100, Ferric dextran, Ferridextran, Ferrodextran, Ferroglucin, Ferroglukin 75, Imposil, Iro-Jex, Iron dextran, Iron-dextran complex, Iron dextran injection, Iron hydrogenated dextran, Ironorm injection, Myofer 100, Polyfer, Prolongal, RCRA waste number U139, Ursoferran

#### Section 3 - Hazards Identification

#### **Emergency Overview**

Hamful

Limited evidence of a carcinogenic effect. May cause sensitization by inhalation and skin contact Calif. Prop. 65 carcinogen. Target organ(s): Central nervous system. Kidneys.

**HMIS Rating** 

Health: 3\*

Flammability: 0

Reactivity: 0

NFPA Rating

Health: 3

Flammability: 0

Reactivity: 0

\*additional chronic hazards present.

For additional information on toxicity, please refer to Section 11

#### Section 4 - First Aid Measures

#### Oral Exposure

If swallowed, wash out mouth with water povided person is conscious. Call a physician.

Inhalation Exposure

If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

Eve Exposure

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the evelids with fingers. Call a physician.

#### Section 5 - Fire Fighting Measures

**Autoignition Temp:** 

N/A

**Extinguishing Media** 

Suitable

Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

Firefighting

**Protective Equipment** 

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes

Specific Hazard(s)

Emits toxic fumes under fire conditions.

# Section 6 - Accidental Release Measures

Procedure(s) of Personal Precaution(s)

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

Methods for Cleaning Up

Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete

# Section 7 - Handling and Storage

Handling

User Exposure

Avoid contact with eyes, skin, and clothing Do not breathe vapor.

Suitable

Keep tightly closed

# Section 8 - Exposure Controls / PPE

**Engineering Controls** 

Mechanical exhaust required.

## Personal Protective Equipment

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a fulface respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

Wear appropriate government approved respirator, chemical esistant gloves, safety goggles, other protective clothing.

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### General Hygiene Measures

Wash thoroughly after handling Wash contaminated clothing before reuse

# Section 9 - Physical/Chemical Properties

N/A

N/A

N/A

N/A

Appearance	
Physical State	
Liquid	

Form Turbid

40-65 BP/BP Range N/A MP/MP Range N/A Freezing Point N/A

Vapor Pressure N/A Vapor Density N/A Saturated Vapor Conc. N/A

SG/Density **Bulk Density** Odor Threshold N/A Volatile% N/A **VOC Content** N/A N/A

Water Content Solvent Content **Evaporation Rate** Viscosity Partition Coefficient

Decomposition Temp. N/A Flash Point °F N/A Flash Point °C N/A **Explosion Limits** 

N/A Flammability N/A Autoignition Temp N/A Solubility N/A

N/A = not available

### Section 10 - Stability and Reactivity

#### Stability

Stable

Stable.

**Materials** to Avoid Oxidizing agents.

#### Hazardous Decomposition Products

**Hazardous Decomposition Products** 

Carbon monoxide, Carbon dioxide, Iron oxides

Hazardous Polymerization **Hazardous Polymerization** 

Will not occur.

# Section 11 - Toxicological Information

# Route of Exposure

Skin Contact

May cause skin irritation.

Skin Absorption

May be harmful if absorbed through the skin.

Eye Contact

May cause eye irritation.

Inhalation

May be harmful if inhaled Material may be irritating to mucous membranes and upper respiratory tract.

Ingestion

May be harmful if swallowed

#### Sensitization

Respiratory

May cause allergic respiratory reaction.

May cause allergic skin reaction.

### Target Organ(s) or System(s)

Kidneys, Central nervous system.

### Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

RTECS Number: NI2200000

#### **Toxicity Data**

Intraperitoneal - Rat: 3 GM(FE)/KG (LD50)

Intraperitoneal - Rat: 3 GM(FE)/KG (LD50)

Oral - Mouse: 1 GM(FE)/KG (LD50)

Oral - Mouse: 1 GM(FE)/KG (LD50)

Intravenous - Mouse: 460 MG(FE)/KG (LD50)

Intravenous - Mouse: 460 MG(FE)/KG (LD50)

# Chronic Exposure- Carcinogen

Result: This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

Woman - Intramuscular. 20 MG/KG 3Y I

Result: Tumorigenic:Neoplastic by RTECS criteria Tumorigenic:Tumors at site or application.

Woman - Intramuscular: 20 MG/KG 3Y I

Result: Tumorigenic:Neoplastic by RTECS criteria\_Tumorigenic:Tumors at site or application.

Rat - Subcutaneous 750 MG(FE)/KG 4W I

Result: Tumorigenic:Carcinogenic by RTECS criteria. Tumorigenic:Tumors at site or application.

Rat - Subcutaneous 750 MG(FE)/KG 4W |

Result: Tumorigenic:Carcinogenic by RTECS criteria Tumorigenic:Tumors at site or application.

Rat - Intramuscular: 1150 MG/KG 17W I

Result: Tumorigenic:Neoplastic by RTECS criteria. Tumorigenic:Tumors at site or application.

Rat - Intramuscular: 1150 MG/KG 17W I

Result: Tumorigenic:Neoplastic by RTECS criteria Tumorigenic:Tumors at site or application.

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Mouse - Subcutaneous 2300 MG/KG I

Result: Tumorigenic:Equivocal tumorigenic agent by RTECS criteria Blood:Lymphomas including Hodgkin's disease. Tumorigenic: Tumors at site or application,

Mouse - Subcutaneous 2300 MG/KG

Result Tumorigenic: Equivocal tumorigenic agent by RTECS criteria Blood: Lymphomas including Hodgkin's disease, Tumorigenic:Tumors at site or application.

Mouse - Intramuscular, 2 GM(FE)/KG 9W I

Result: Tumorigenic Equivocal tumorigenic agent by RTECS criteria Tumorigenic:Tumors at site or application.

Mouse - Intramuscular. 2 GM(FE)/KG 9W I

Result: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Tumorigenic: Tumors at site or application.

Rabbit - Intramuscular, 28 GM/KG 27W I

Result: Tumorigenic:Equivocal tumorigenic agent by RTECS criteria.Tumorigenic:Tumors at site or application,

Rabbit - Intramuscular: 28 GM/KG 27W I

Result: Tumorigenic:Equivocal tumorigenic agent by RTECS criteria, Tumorigenic: Tumors at site or application,

Hamster - Subcutaneous 40 GM/KG 10W I

Result: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria Liver: Tumors,

Hamster - Subcutaneous, 40 GM/KG 10W I

Result: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria Liver: Tumors

Mouse - Subcutaneous 1120 MG(FE)/KG 28W I

Result: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Tumorigenic: Tumors at site or application.

Mouse - Subcutaneous 1120 MG(FE)/KG 28W I

Result: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Tumorigenic: Tumors at site or application.

Rat - Intramuscular: 3760 MG(FE)/KG 47W I

Result: Tumorigenic: Neoplastic by RTECS criteria. Tumorigenic: Tumors at site or application.

Rat - Intramuscular. 3760 MG(FE)/KG 47W I

Result: Tumorigenic: Neoplastic by RTECS criteria. Tumorigenic: Tumors at site or application.

Rat - Subcutaneous 104 GM/KG 26W I

Result: Turnorigenic: Equivocal turnorigenic agent by RTECS criteria Turnorigenic: Turnors at site or application.

Rat - Subcutaneous 104 GM/KG 26W I

Result: Tumorigenic:Equivocal tumorigenic agent by RTECS criteria.Tumorigenic:Tumors at site or application.

Rat - Subcutaneous 1500 MG(FE)/KG 8W I

Result: Tumorigenic:Carcinogenic by RTECS criteria Tumorigenic:Tumors at site or application.

Rat - Subcutaneous 1500 MG(FE)/KG 8W I

Result: Tumorigenic:Carcinogenic by RTECS criteria Tumorigenic:Tumors at site or application.

Woman - Intramuscular, 52 MG(FE)/KG 6W 1

Result Tumorigenic:Carcinogenic by RTECS criteria Tumorigenic:Tumors at site or application.

Woman - Intramuscular, 52 MG(FE)/KG 6W I

Result: Tumorigenic: Carcinogenic by RTECS criteria Tumorigenic: Tumors at site or application

Rat - Subcutaneous 2400 MG(FE)/KG 24W I

Result: Tumorigenic:Carcinogenic by RTECS criteria Tumorigenic:Tumors at site or application.

Rat - Subcutaneous 2400 MG(FE)/KG 24W I

Result: Tumorigenic:Carcinogenic by RTECS criteria. Tumorigenic:Tumors at site or application.

Result: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Lungs, Thorax, or Respiration: Bronchiogenic carcinoma. Tumorigenic:Tumors at site or application.

Mouse - Subcutaneous, 104 GM/KG 13W I

Result: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria.Lungs, Thorax, or Respiration: Bronchiogenic carcinoma. Tumorigenic: Tumors at site or application.

IARC Carcinogen List

Group 2B

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NTP Carcinogen List

Rating

Rabbit

Anticipated to be a carcinogen Anticipated to be a carcinogen.

Chronic Exposure-Teratogen

Route of Application Exposure Time Species Dose (FE)/KG (6-18D Rabbit 650 MG Intramuscular PREG)

Result: Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus)

(FE)/KG (6-18D Intramuscular 650 MG

PREG!

Result: Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus)

Chronic Exposure- Reproductive Hazard

Route of Application Exposure Time Species <u>Dose</u> (17-20D PREG) 2580 GM/KG Rat Intravenous Result: Effects on Newborn: Growth statistics (e.g., reduced weight gain) (17-20D PREG) 2580 GM/KG Intravenous Rat Result: Effects on Newborn: Growth statistics (e.g., reduced weight gain). (6W PRE) 240 MG/KG Intramuscular Rat Result: Effects on Newborn: Growth statistics (e.g., reduced weight gain) Effects on Newborn: Behavioral Intramuscular (6W PRE) Rat 240 MG/KG Result: Effects on Newborn: Growth statistics (e.g., reduced weight gain)Effects on Newborn: Behavioral (1D PRE) Rat 52500 LIG/KG Intrauterine Result: Maternal Effects: Uterus, cervix, vagina. (1D PRE) Rat 52500 UG/KG Intrauterine Result: Maternal Effects: Uterus, cervix, vagina. (1D PRE) 5250 UG/KG Intrauterine Rat Result: Maternal Effects: Uterus, cervix, vagina Effects on Fertility: Female fertility index (e.g., # females pregnant per # sperm positive females; # females pregnant per # females mated ). (1D PRE) Rat 5250 UG/KG Intrauterine Result: Maternal Effects: Uterus, cervix, vagina Effects on Fertility: Female fertility index (e.g., # females pregnant per # sperm

#### Section 12 - Ecological Information

No data available.

#### Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation

Contact a licensed professional waste disposal service to dispose of this material.

positive females; # females pregnant per # females mated ).

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afteumer and scrubber.

Observe all federal, state, and local environmental regulations.

### Section 14 - Transport Information

Proper Shipping Name: None

Non-Hazardous for Transport This substance is considered to be nonhazardous for transport.

Non-Hazardous for Air Transport Non-hazardous for air transport

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# Section 15 - Regulatory Information

# **EU Additional Classification**

Symbol of Danger: Xn

Indication of Danger

Harmful:

Risk Statements

R: 40 42/43

Limited evidence of a carcinogenic effect May cause sensitization by inhalation and skin contact.

Safety Statements

S: 23 26 36/37/39 45

Do not breathe vapor. In case of contact with eyes, rinse immediately with plenty of water and seek medical adviceWear suitable protective clothing; gloves, and eyerface protection in case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

### **US Classification and Label Text**

Indication of Danger

Harmful.

### **Risk Statements**

Limited evidence of a carcinogenic effect May cause sensitization by inhalation and skin contact.

#### Safety Statements

Do not breathe spray. In case of contact with eyes, rinse immediately with plenty of water and seek medical adviceWear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

#### **US Statements**

Calif. Prop. 65 carcinogen Target organ(s): Central nervous system. Kidneys.

### United States Regulatory Information

SARA Listed: No

### United States - State Regulatory Information

#### California Prop - 65

This product is or contains chemical(s) known to the state of California to cause cancerCalifornia Proposition 65: This product is or contains chemical(s) known to the state of California to cause cancerCalifornia Proposition 65: This product is or contains chemical(s) known to the state of California to cause cancer.

# Canada Regulatory Information

### WHMIS Classification

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: Yes

NDSL: No

### Section 16 - Other Information

### Disclaimer

For R&D use only. Not for drug, household or other uses.

#### Warrant

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 toppropriate safety precautions. It does not represent any guarantee of the product is ginaldrich inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice gracking slip for additional terms and conditions of sale. Copyright2013 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

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