

# Iron-Dextran: sc-215191

## MATERIAL SAFETY DATA SHEET

### SECTION 1 - PRODUCT AND COMPANY INFORMATION

Product Name: Iron-Dextran  
 Catalog Number: sc-215191  
 Supplier: Santa Cruz Biotechnology, Inc.  
 2145 Delaware Ave.  
 Santa Cruz, California 95060  
 800.457.3801 or 831.457.3800  
 Emergency: ChemWatch  
 Within the US & Canada: 877-715-9305  
 Outside the US & Canada: +800 2436 2255  
 (1-800-CHEMCALL) or call +613 9573 3112

### SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENT

<u>Substance Name</u>	<u>CAS #</u>	<u>SARA 313</u>
Iron-Dextran	9004-66-4	No

  

<u>Ingredient Name</u>	<u>CAS #</u>	<u>%</u>	<u>SARA 313</u>
Phenol.stab.	108-95-2	-	Yes

Synonyms Ferric hydroxide dextran complex  
 Formula:  $\text{FeH}_2\text{O}_4\text{S}$   
 Molecular Weight: 153.92

### SECTION 3 - HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

Harmful.  
 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 provided person is conscious. Call a physician.

#### INHALATION EXPOSURE

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

#### DERMAL EXPOSURE

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

#### EYE EXPOSURE

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

### SECTION 5 - FIRE FIGHTING MEASURES

#### FLASH POINT

N/A

#### AUTOIGNITION TEMP

N/A

#### FLAMMABILITY

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.  
 Avoid prolonged or repeated exposure.

#### STORAGE

Suitable: Keep tightly closed. Store at room temperature.

### SECTION 8 - EXPOSURE CONTROLS / PPE

#### ENGINEERING CONTROLS

Mechanical exhaust required.

#### PERSONAL PROTECTIVE EQUIPMENT

Respiratory: 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 full-face 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.

Other: Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing.

#### GENERAL HYGIENE MEASURES

Wash thoroughly after handling. Wash contaminated clothing before reuse.

### SECTION 9 - PHYSICAL/CHEMICAL PROPERTIES

Form ..... Turbid Liquid  
 pH ..... 4.0 - 6.5  
 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  
 Bulk Density ..... N/A  
 Odor Threshold ..... N/A  
 Volatile% ..... N/A  
 VOC Content ..... N/A

continued...

Water Content .....N/A  
 Solvent Content .....N/A  
 Evaporation Rate .....N/A  
 Viscosity .....N/A  
 Surface Tension .....N/A  
 Partition Coefficient .....N/A  
 Decomposition Temp. ....N/A  
 Flash Point .....N/A  
 Explosion Limits .....N/A  
 Flammability .....N/A  
 Autoignition Temp .....N/A  
 Refractive Index .....N/A  
 Optical Rotation .....N/A  
 Miscellaneous Data .....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.  
 Skin: May cause allergic skin reaction.

**TARGET ORGAN(S) OR SYSTEM(S)**

Central nervous system. Kidneys.

**SIGNS AND SYMPTOMS OF EXPOSURE**

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

**TOXICITY DATA**

Intraperitoneal Intraperitoneal  
 Rat Rat  
 3 GM(FE)/KG 3 GM(FE)/KG  
 LD50 LD50  
 Oral Oral  
 Mouse Mouse  
 1 GM(FE)/KG 1 GM(FE)/KG  
 LD50 LD50  
 Intravenous Intravenous  
 Mouse Mouse  
 460 MG(FE)/KG 460 MG(FE)/KG  
 LD50 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.

Species: Woman Woman  
 Route of Application: Intramuscular Intramuscular  
 Dose: 20 MG/KG 20 MG/KG  
 Exposure Time: 3Y 3Y  
 Frequency: I I

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

Species: Rat Rat  
 Route of Application: Subcutaneous Subcutaneous  
 Dose: 750 MG(FE)/KG 750 MG(FE)/KG  
 Exposure Time: 4W 4W  
 Frequency: I I

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

Species: Rat Rat  
 Route of Application: Intramuscular Intramuscular  
 Dose: 1150 MG/KG 1150 MG/KG  
 Exposure Time: 17W 17W  
 Frequency: I I

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

Species: Mouse Mouse  
 Route of Application: Subcutaneous Subcutaneous  
 Dose: 2300 MG/KG 2300 MG/KG  
 Exposure Time: I I

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

Species: Mouse Mouse  
 Route of Application: Intramuscular Intramuscular  
 Dose: 2 GM(FE)/KG 2 GM(FE)/KG  
 Exposure Time: 9W 9W  
 Frequency: I I

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

Species: Rabbit Rabbit  
 Route of Application: Intramuscular Intramuscular  
 Dose: 28 GM/KG 28 GM/KG  
 Exposure Time: 27W 27W  
 Frequency: I I

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

Species: Hamster Hamster  
 Route of Application: Subcutaneous Subcutaneous  
 Dose: 40 GM/KG 40 GM/KG  
 Exposure Time: 10W 10W  
 Frequency: I I

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

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Species: Mouse Mouse  
Route of Application: Subcutaneous Subcutaneous  
Dose: 1120 MG(FE)/KG 1120 MG(FE)/KG  
Exposure Time: 28W 28W  
Frequency: I I  
Result: Tumorigenic: Tumors at site or application. Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Tumorigenic: Tumors at site or application. Tumorigenic: Equivocal tumorigenic agent by RTECS criteria.

Route of Application: Intramuscular Intramuscular  
Dose: 3760 MG(FE)/KG 3760 MG(FE)/KG  
Exposure Time: 47W 47W  
Frequency: I I  
Result: Tumorigenic: Tumors at site or application. Tumorigenic: Neoplastic by RTECS criteria. Tumorigenic: Tumors at site or application. Tumorigenic: Neoplastic by RTECS criteria.

Species: Rat Rat  
Route of Application: Subcutaneous Subcutaneous  
Dose: 104 GM/KG 104 GM/KG  
Exposure Time: 26W 26W  
Frequency: I I  
Result: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Tumorigenic: Tumors at site or application. Tumorigenic: Tumors at site or application. Tumorigenic: Equivocal tumorigenic agent by RTECS criteria.

Species: Rat Rat  
Route of Application: Subcutaneous Subcutaneous  
Dose: 1500 MG(FE)/KG 1500 MG(FE)/KG  
Exposure Time: 8W 8W  
Frequency: I I  
Result: Tumorigenic: Tumors at site or application. Tumorigenic: Carcinogenic by RTECS criteria. Tumorigenic: Tumors at site or application. Tumorigenic: Carcinogenic by RTECS criteria.

Species: Woman Woman  
Route of Application: Intramuscular Intramuscular  
Dose: 52 MG(FE)/KG 52 MG(FE)/KG  
Exposure Time: 6W 6W  
Frequency: I I  
Result: Tumorigenic: Carcinogenic by RTECS criteria. Tumorigenic: Tumors at site or application. Tumorigenic: Carcinogenic by RTECS criteria. Tumorigenic: Tumors at site or application.

Species: Rat Rat  
Route of Application: Subcutaneous Subcutaneous  
Dose: 2400 MG(FE)/KG 2400 MG(FE)/KG  
Exposure Time: 24W 24W  
Frequency: I I  
Result: Tumorigenic: Carcinogenic by RTECS criteria. Tumorigenic: Tumors at site or application. Tumorigenic: Carcinogenic by RTECS criteria. Tumorigenic: Tumors at site or application.

Species: Mouse Mouse  
Route of Application: Subcutaneous Subcutaneous  
Dose: 104 GM/KG 104 GM/KG  
Exposure Time: 13W 13W  
Frequency: I I  
Result: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Lungs, Thorax, or Respiration: Bronchiogenic carcinoma. Tumorigenic: Tumors at site or application. Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Lungs, Thorax, or Respiration: Bronchiogenic carcinoma. Tumorigenic: Tumors at site or application.

IARC CARCINOGEN LIST  
Rating: Group 2B

NTP CARCINOGEN LIST  
Rating: Anticipated to be a carcinogen. Anticipated to be a carcinogen.

CHRONIC EXPOSURE - TERATOGEN  
Species: Rabbit Rabbit  
Dose: 650 MG 650 MG  
Route of Application: Intramuscular Intramuscular  
Exposure Time: (FE)/KG (6-18D PREG) (FE)/KG (6-18D PREG)  
Result: Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).

CHRONIC EXPOSURE - REPRODUCTIVE HAZARD  
Species: Rat Rat  
Dose: 2580 GM/KG 2580 GM/KG  
Route of Application: Intravenous Intravenous  
Exposure Time: (17-20D PREG) (17-20D PREG)  
Result: Effects on Newborn: Growth statistics (e.g., reduced weight gain). Effects on Newborn: Growth statistics (e.g., reduced weight gain).

Species: Rat Rat  
Dose: 240 MG/KG 240 MG/KG  
Route of Application: Intramuscular Intramuscular  
Exposure Time: (6W PRE) (6W PRE)  
Result: Effects on Newborn: Behavioral. Effects on Newborn: Growth statistics (e.g., reduced weight gain). Effects on Newborn: Growth statistics (e.g., reduced weight gain). Effects on Newborn: Behavioral.

Species: Rat Rat  
Dose: 52500 UG/KG 52500 UG/KG  
Route of Application: Intrauterine Intrauterine  
Exposure Time: (1D PRE) (1D PRE)  
Result: Maternal Effects: Uterus, cervix, vagina. Maternal Effects: Uterus, cervix, vagina.

Species: Rat Rat  
Dose: 5250 UG/KG 5250 UG/KG  
Route of Application: Intrauterine Intrauterine  
Exposure Time: (1D PRE) (1D PRE)  
Result: Effects on Fertility: Female fertility index (e.g., # females pregnant per # sperm positive females; # females pregnant per # females mated ). Maternal Effects: Uterus, cervix, vagina. Effects on Fertility: Female fertility index (e.g., # females pregnant per # sperm positive females; # females pregnant per # females mated ). Maternal Effects: Uterus, cervix, vagina.

## 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. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

## SECTION 14 - TRANSPORT INFORMATION

### DOT

Proper Shipping Name: None  
Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

### IATA

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.

R: 40-42/43

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

S: 23-26-36/37/39-45

Safety Statements: Do not breathe vapor. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear 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 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 advice. Wear 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

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

***The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.***

2/14/2012