



## Material Safety Data Sheet

### 1 PRODUCT IDENTIFICATION AND USE

MANUFACTURER: Diagnostic Chemicals Limited  
16 McCarville Street  
West Royalty Industrial Park  
Charlottetown, P.E.I.  
Canada C1E-2A6  
+1-902-566-1396

PRODUCT NAME: Serum Iron-SL  
CATALOGUE NUMBER: 157-01, 157-02, 157-10, 157-30, 157-OP  
PRODUCT USE: For the IN VITRO quantitative determination of iron in serum.  
DATE OF MSDS PREPARATION: May 2, 2007  
MSDS PREPARED BY: John Gabriel  
EMERGENCY TELEPHONE NO.: 1- (902) 566-1396

### 2 COMPOSITION, INGREDIENT INFORMATION

<u>COMPONENT</u>	<u>CAS REGISTRY NUMBER</u>	<u>ACGIH TLV</u>
<b>Acid Dissociating Reagent (R1):</b>		
Trade Secret 0.9% w/w	not available	not available
Acetic acid 5.6% w/w	64-19-7	10 ppm TWA 15 ppm STEL
Sodium hydroxide 1.7% w/w	1310-73-2	C2 mg/m <sup>3</sup>
<b>Ferene Color Reagent (R2):</b>		
Trade Secret 1.9% w/w	not available	not available

### 3 HAZARDOUS IDENTIFICATION

#### EMERGENCY OVERVIEW:

May be harmful if swallowed. Physical and health hazard information on reagent mixtures has not been fully determined.

#### POTENTIAL HEALTH EFFECTS:

ROUTE OF ENTRY/EXPOSURE: EYE CONTACT: [X] SKIN CONTACT: [X] INHALATION: [X] INGESTION: [X]  
SKIN ABSORPTION: [X]

#### EFFECTS OF ACUTE EXPOSURE TO PRODUCTS:

EYES: May cause irritation.  
SKIN: May cause irritation.  
INHALATION: May cause irritation to mucous membranes and upper respiratory tract.  
INGESTION: May be harmful if ingested.

#### EFFECTS OF CHRONIC EXPOSURE TO PRODUCT:

EVIDENCE OF CARCINOGENICITY, TERATOGENICITY, REPRODUCTIVE TOXICITY, MUTAGENICITY: Trade secret is reasonably anticipated to be a human carcinogen by NTP; possibly carcinogen to humans by IARC. No human data on teratogenicity, embryo toxicity or mutagenicity. May cause toxic effects on the blood system including bone marrow toxicity and reduction in red blood cells, white blood cells, and platelets. Enlargement of the thyroid and spleen has also been reported. Skin sensitization may occur.

### 4 FIRST AID MEASURES

EYES: Flush eyes with water for at least 15 minutes and obtain medical attention.  
SKIN: In case of contact, immediately flush area with plenty of water. If irritation continues seek medical attention.  
INHALATION: If inhaled, remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and obtain medical attention.  
INGESTION: If ingested, drink plenty of fluids and obtain medical attention.

## **5 FIRE AND EXPLOSION HAZARDS**

FLAMMABLE: No  
FLASH POINT: not available  
FLAMMABLE LIMITS (% in Air): Lower: not available. Upper: not available  
EXTINGUISHING MEDIA: As appropriate for fires in surrounding materials.  
FIREFIGHTING: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.  
AUTOIGNITION TEMPERATURE: not available  
HAZARDOUS COMBUSTION PRODUCTS: not available  
EXPLOSION DATA: Sensitivity to mechanical impact: not available. Sensitivity to static discharge: not available

## **6 ACCIDENTAL RELEASE MEASURES**

PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL: Ventilate the area. Wear appropriate personal protective equipment as specified in Section 8. Contain and recover liquid when possible. Collect liquid in an appropriate container or absorb with an inert material and place in waste container. Wash surrounding area. Dispose of spilled and contaminated material in accordance with federal, provincial, state, and local regulations.

## **7 HANDLING AND STORAGE**

HANDLING PROCEDURES AND EQUIPMENT: Avoid contact. Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse.

STORAGE REQUIREMENTS: 2-8 °C

INCOMPATIBILITIES: not available

HAZARDOUS DECOMPOSITION PRODUCTS: not available

## **8 EXPOSURE CONTROLS, PERSONAL PROTECTION**

ENGINEERING CONTROLS: Local exhaust not required under normal circumstances.  
PERSONAL PROTECTIVE CLOTHING (PPE): Safety glasses with side-shields, lab coat, rubber nitrile or other impermeable gloves.  
RESPIRATORY PROTECTION: none required.  
EXPOSURE LIMITS: not available

## **9 PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE: All reagents are liquids.  
APPEARANCE: R1 is clear and colorless. R2 is clear yellow to amber.  
ODOUR THRESHOLD: not available  
ODOUR: R1 is mild of vinegar. R2 is odourless.  
MELTING POINT: not available  
BOILING POINT: not available  
SPECIFIC GRAVITY: R1=1.024; R2=1.018  
VAPOUR PRESSURE: not available  
VAPOUR DENSITY: not available  
WATER SOLUBILITY: soluble  
EVAPORATION RATE: not available  
pH at 25 °C: R1=4.5; R2=2.75  
COEFFICIENT OF OIL/WATER DISTRIBUTION: not available

## **10 STABILITY AND REACTIVITY**

STABILITY: Stable  
POSSIBLE HAZARDOUS REACTIONS/CONDITIONS: not available  
CONDITIONS TO AVOID: not available  
MATERIALS TO AVOID: not available  
HAZARDOUS DECOMPOSITION PRODUCTS: not available.

## **11 TOXICOLOGICAL INFORMATION**

LD<sub>50</sub>: not available  
SENSITIZATION TO PRODUCT: not available  
NAME OF TOXICOLOGICALLY SYNERGISTIC PRODUCTS: not available  
IRRITANCY OF PRODUCT: not available

## **12 ECOLOGICAL INFORMATION**

not available

## **13 DISPOSAL CONSIDERATIONS**

RECOMMENDATION FOR DISPOSAL OF UNUSED PRODUCT: Observe all federal, provincial, state and local regulations.

RECOMMENDATION FOR DISPOSAL OF PACKAGING: Observe all federal, provincial, state and local regulations.

## **14 TRANSPORT INFORMATION**

SPECIAL SHIPPING INFORMATION:

not regulated

## **15 REGULATORY INFORMATION**

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulation (CPR) and the MSDS contains all the information required by the CPR.

RISK PHRASES: R22 Harmful if swallowed  
R43 May cause sensitization by skin contact

SAFETY PHRASES: S24 Avoid contact with skin  
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

## **16 OTHER INFORMATION**

The information provided on this Material Safety Data Sheet is provided in the interest of promoting safe handling of the material. While this information is believed to be correct, DCL makes no warranty in respect to any of the information disclosed. Observe all federal, provincial, state and local laws concerning health and the environment.

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