

MATERIAL SAFETY DATA SHEET

I PRODUCT IDENTIFICATION AND USE

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

CHEMICAL/PRODUCT NAME: **Iron-SL**

CATALOGUE NUMBER: **157-10, 157-30, 157-01, 157-02**

NOTE: Physical and health hazard information on reagent mixtures has not been determined. Any physical and health information noted is based 1) on evaluation of data for the pure ingredients, and 2) concentration of ingredients as packaged.

PRODUCT DESCRIPTION: For the quantitative determination of iron in serum.

II HAZARDOUS INGREDIENTS

| | <u>ACGIH TLV</u> (NE = Not Established) | <u>CAS</u> |
|----------------------------------|---|------------|
| Acid Dissociating Reagent (ADR): | | |
| Trade Secret 0.9% w/v | NE | n.av. |
| Acetic acid 5.7% v/v | 10 ppm (TWA) | 64-19-7 |
| Sodium hydroxide 1.7% w/v | 2 mg/m3 | 1310-73-2 |
| Colour Reagent: | | |
| Trade Secret 1.9% w/v | NE | n.av. |

III TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY/EXPOSURE

SKIN CONTACT: [x] EYE CONTACT: [x] INHALATION: [x]
INGESTION: [x] SKIN ABSORPTION [x]

EFFECTS OF ACUTE EXPOSURE:

SKIN CONTACT: May cause allergic skin eruptions and irritation.

EYE CONTACT: May cause irritation.

INGESTION: Harmful if ingested.

INHALATION: May cause irritation to mucous membranes and upper respiratory tract.

EFFECTS OF CHRONIC EXPOSURE:

Trade secret: Chronic administration has caused liver tumors in rats.

Acetic acid: may cause erosion of dental enamel, bronchitis, eye irritation, darkening of the skin, and chronic inflammation of the respiratory tract, can cause occupational asthma. Skin sensitization to acetic acid is rare, but has occurred.

Sodium hydroxide: repeated exposure may cause dermatitis.

EVIDENCE OF CARCINOGENICITY, TERATOGENICITY, REPRODUCTIVE TOXICITY, MUTAGENICITY:

Trade secret: NTP (Suspect carcinogen), IARC (Group 2B carcinogen), OSHA (Possible Select carcinogen), reproductive effects, mutagen, teratogen.

Acetic acid: reproductive effector; investigated as a mutagen.

Sodium hydroxide: investigated as a mutagen.

SENSITIZATION TO PRODUCT: Contact with proprietary ingredient may cause allergic skin eruptions.

IV EMERGENCY AND FIRST AID MEASURES

SYNERGISTIC PRODUCTS: n.av.

Trade secret LD50 (Oral Rat): 100 - 200 mg/Kg
Acetic acid LD50 (Oral Rat): 3310 mg/kg
Sodium hydroxide LD50 (Oral Rat): 4090 mg/kg

SKIN: In case of contact, immediately flush area with plenty of water.

EYES: Immediately flush eyes with plenty of water for at least 15 minutes and get medical attention.

ORAL: If ingested drink plenty of fluids and contact a physician.

INHALATION: If inhaled remove victim to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen, and call a physician.

V PHYSICAL DATA

PHYSICAL STATE: ADR - liquid; Colour Reagent - liquid.
APPEARANCE AND ODOUR: ADR - clear and colourless, soapy with a vinegar odour; Colour Reagent - clear, light yellow to amber liquid.
ODOUR THRESHOLD: n.av.
VAPOUR PRESSURE: n.av.
VAPOUR DENSITY: n.av.
SPECIFIC GRAVITY: n.av.
EVAPORATION RATE: n.av.
MELTING POINT: n.av.
BOILING POINT: n.av.
SOLUBILITY IN WATER: Soluble
pH: ADR - 4.5; Colour Reagent - 2.75
COEFFICIENT OF OIL/WATER DISTRIBUTION: n.av.

VI FIRE AND EXPLOSION HAZARD DATA

FLAMMABLE: No
EXTINGUISHING MEDIA: As appropriate for fire in surrounding materials.
FLASH POINT: n.ap.
UPPER FLAMMABLE LIMIT: n.ap.
LOWER FLAMMABLE LIMIT: n.ap.
AUTOIGNITION TEMPERATURE: n.ap.
HAZARDOUS COMBUSTION PRODUCTS: n.av.

EXPLOSION DATA:
SENSITIVITY TO MECHANICAL IMPACT: n.ap.
SENSITIVITY TO STATIC DISCHARGE: n.ap.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Unknown

VII REACTIVITY DATA

STABLE: Yes
HAZARDOUS POLYMERIZATION: Will not occur
INCOMPATIBILITY WITH OTHER SUBSTANCES: n.av.

HAZARDOUS DECOMPOSITION PRODUCTS: n.av.

VIII PREVENTIVE MEASURES

LOCAL EXHAUST: Recommended when working with hazardous ingredients, otherwise not normally required.

PROTECTIVE CLOTHING: Lab coat
PROTECTIVE GLOVES: Rubber
EYE PROTECTION: Safety glasses

OTHER PRECAUTIONS: Avoid contact and inhalation, do not get in eyes, on skin or clothing. Do not pipet by mouth. Wash contaminated clothing before reuse.

RESPIRATORY PROTECTION: Recommended when working with hazardous ingredients, otherwise not normally required.

LEAK AND SPILL PROCEDURE: Absorb small leaks or spills with sponge, mop up large spills with plenty of soap and water.

WASTE DISPOSAL: Dilute with a large volume of water and dispose of into sewer system, in accordance with local regulations.

STORAGE REQUIREMENTS: 2-8°C

SHIPPING INFORMATION: Not regulated

IX PREPARATION OF THE M.S.D.S.

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DATE: September 10, 2002

** n.av. not available n.ap. not applicable*

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 pollution.

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