SAFETY DATA SHEET

SECTION 1
PRODUCT NAME: IRON DEXTRAN 10% Powder
GENERIC DESCRIPTION: Iron Dextran 10% Powder
SUPPLIED BY: Dextran Products Limited.
FORMULA: N/A
RECOMMENDED USE: Raw Material for the preparation of a Veterinary Hematinic
USES ADVISED AGAINST: No Information available

Details of the supplier of the safety data sheet:
Company: Dextran Products
Address: 421 Comstock Rd
           Scarborough, Ontario
           M1L 2H5

Emergency Telephone Number:
416-755-2231

SECTION 2
HAZARDOUS IDENTIFICATION
POTENTIAL HEALTH EFFECTS: Not a dangerous substance or mixture according to the
Classification under 2012 OSHA Hazard Communication
Globally Harmonized System (GHS)
( 29 CFR 1910.1200 )
LABEL ELEMENTS: Not required

HAZARDS NOT OTHERWISE CLASSIFIED (HNOC): None identified

SECTION 3
COMPOSITION
COMPONENTS:
Iron Dextran 20%

CAS-No:
9004-66-4

SECTION 4
FIRST-AID MEASURES
INSTRUCTIONS
EYES: Flush eyes with large amounts of water for at least
15 minutes. Hold the eyelids apart to ensure rinsing
of the entire surface of the eye and lids with water.
Obtain immediate medical attention.

SKIN: Wipe off and flush with water.

INHALATION: Remove victim from further exposure and restore
breathing, if required.
**INGESTION:**
Do not take internally. Rinse mouth with large amounts of water. Seek medical help.

**MOST IMPORTANT SYMPTOMS/EFFECTS:** No information available.

**NOTES TO PHYSICIAN:**
Treat symptomatically.

**SECTION 5**

**FIRE-FIGHTING MEASURES**
Not available.

**FLAMMABILITY:**
Water spray, CO₂, Dry Chemical or Foam

**EXTINGUISHING MEDIA:**
Self contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals.

**SPECIAL PROCEDURES:**
Not applicable.

**FLASH POINT:**
Not available.

**AUTO IGNITION TEMPERATURE:**
Not regulated.

**T.D.G. FLAM. CLASS:**
None known.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**
None known.

**HAZARDOUS COMBUSTION PRODUCTS:**
None known.

**EXPLOSION DATA**
- **MAX. PRES. OUTPUT:** Not available.
- **MAX. PRES. RISE RATE:** Not available.
- **DEFLAGRATION INDEX:** Not available.

**DISCHARGE**
- **SENSITIVITY TO IMPACT:** Not applicable.
- **RATE OF BURNING:** Not available.

**UNSUITABLE EXTINGUISHING MEDIA:** No information available

**SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:** Keep product and empty container away from heat and sources of ignition.

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon monoxide (CO) Carbon Dioxide (C0₂)

**PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS:**
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**NFPA**

<table>
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**SECTION 6**

**PERSONAL PRECAUTIONS**

**ENVIRONMENTAL PRECAUTIONS:**
Should not be released into the environment. See Section 12 for additional ecological information.

IRON DEXTRAN 10% POWDER
LEAK/SPILL: Use absorbent material to collect and contain for salvage or disposal according to local laws.

SECTION 7 HANDLING AND STORAGE
HANDLING PROCEDURES AND EQUIPMENT: Maintain good personal hygiene, any gross amount of chemical should be removed from the skin as soon as possible, especially before eating or smoking. Wear personal protective equipment. Ensure ventilation. Avoid contact with skin, eye, and clothing.

STORAGE NEEDS: Store in a cool dry place away from heat and ignition sources.

SECTION 8 EXPOSURE CONTROLS/PERSOONAL PROTECTION
GLOVES/TYPE: Butyl rubber gloves.
RESPIRATOR/TYPE: In the absence of proper environmental controls, an approved dust mask is recommended.
EYE/TYPE: Chemical safety goggles.
FOOTWEAR/TYPE: Safety boots.
CLOTHING/TYPE: Normal protective overalls.
OTHER/TYPE: Safety Showers and Eye Wash Stations.
ENGINEERING CONTROLS: Electrical and mechanical equipment should be explosion and dust proof. Exhaust equipment is recommended over the work area with make up air to balance air exhausted.

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

RESPIRATORY PROTECTION: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European standard EN 149. Use a NIOSH/MSHA or European standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES
PHYSICAL STATE: Dark Brown Powder
ODOR: Slight phenolic smell.
BOILING POINT: Not applicable
FREEZING POINT: Not applicable
pH: 4.5 – 7.0 (At 10% concentration)
SPECIFIC GRAVITY: Not applicable
SOLUBILITY IN WATER: Fully soluble with good mixing.
MELTING POINT/RANGE: No data available.
FLASH POINT: No data available.
EVAPORATION RATE: Negligible.
FLAMMABILITY (solid, gas): No information available.
FLAMMABILITY or EXPLOSIVE LIMITS:
   UPPER: No data available
LOWER: No data available
VAPOR PRESSURE: Negligible.
VAPOR DENSITY: No information available.
RELATIVE DENSITY: Not applicable
SOLUBILITY: Soluble in water.
PARTITION COEFFICIENT; n-octanol/water: No data available.
AUTOIGNITION TEMPERATURE: No information available.
DECOMPOSITION TEMPERATURE: No information available.
VISCOITY: No information available.

SECTION 10
CHEMICAL STABILITY: Stable.
COMPATIBILITY WITH OTHER SUBSTANCES: Mixing with any other chemical should be avoided or discussed first with supplier.
REACTIVITY CONDITIONS: Avoid excessive heat, open flames and all ignition sources.
HAZARDOUS POLYMERIZATION: Not available.
HAZARDOUS PRODUCTS OF DECOMPOSITION: None known.
REACTIVE HAZARD: None known.
INCOMPATIBLE MATERIALS: Strong oxidizing agents.

SECTION 11
ROUTE OF ENTRY
SKIN CONTACT: Little known effect.
SKIN ABSORPTION: Little known effect.
EYE CONTACT: Can cause irritation.
INHALATION: Can cause irritation to lungs.
INGESTION: May cause irritation.
EFFECTS OF ACUTE EXPOSURE: None known.
EFFECTS OF CHRONIC EXPOSURE: None known.
MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: Lung or breathing problems may be aggravated.
LD 50 OF MATERIAL: >450mg/kg (fe)/kg (Mouse) (20% Solution)
CARCINOGENICITY: Not available.
REPRODUCTIVE EFFECTS: Not available.
ENVIRONMENTAL TOXICITY: Not available.
CARCINOGENICITY: The table below indicates whether each agency has listed any ingredient as a carcinogen.

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<th>Component</th>
<th>CAS-No</th>
<th>IARC</th>
<th>NTP</th>
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<td>Not Listed</td>
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SECTION 12
TOXICITY: No data available
PERSISTENCE & DEGRADABILITY: No data available
BIOACCUMULATIVE POTENTIAL: No data available
MOBILITY IN SOIL: No data available

PBT and vPvB ASSESSMENT: No data available

OTHER ADVERSE EFFECTS: No data available

SECTION 13
WASTE DISPOSAL: DISPOSAL CONSIDERATION
All local, provincial and federal regulations concerning health and pollution must be reviewed to determine the approved disposal procedures.

CONTAMINATED PACKAGING: Dispose of as unused product.

SECTION 14
BASIC SHIPPING INFO: TRANSPORT INFORMATION
Not dangerous goods.

SECTION 15
WHMIS CLASSIFICATION:

REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

INTERNATIONAL INVENTORIES:

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<tr>
<th>Component</th>
<th>TSCA</th>
<th>DSL</th>
<th>NDSL</th>
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Legend:
X-Listed
E- Indicates a substance that is the subject of a section 5(e) Consent order under TSCA.
F- Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N- Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
P- Indicates a commenced PMN substance.
R- Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
S- Indicates a substance that is identified in a proposed or final Significant New Use Rule.
T- Indicates a substance that is the subject of a Section 4 test rule under TSCA.
XU- Indicates a substance exempt from reporting under the Inventory Update Rule, i.e Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
Y1- Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2- Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concerns reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. FEDERAL REGULATIONS:

TSCA 12(b) Not applicable
SARA 313 Not applicable

SARA 311/312 Hazardous Categorization
Acute Health Hazard: No
Chronic Health Hazard: No
Fire Hazard: No
Sudden Release of Pressure Hazard: No
Reactive Hazard: No

CLEAN WATER ACT: No
CLEAN AIR ACT: No

OSHA: Occupational Safety and Health Administration: Not Applicable

CERCLA: Not Applicable

U.S. DEPARTMENT of TRANSPORTATION:

Reportable Quantity (RQ): N
DOT Marine Pollutant: N
DOT Severe Marine Pollutant: N

WHMIS Hazard Class: Non-controlled

SECTION 16 OTHER INFORMATION
EMERGENCY TELEPHONE NUMBER: 416-755-2231
PREPARED BY: Dextran Products
DATE: June 7, 2019

These data are offered in good faith as typical values and not as a product specification. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user must review these recommendations in the specific context of the intended use and determine whether they are appropriate.