

OXFORD BIOMEDICAL RESEARCH

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# MSDS: Human Lactoferrin Assay kit Product No. FR 18

This product, FR 18 –Human Lactoferrin Assay kit, is provided and produced by Oxford Biomedical Research as an in vitro diagnostic test kit for the sole purpose of research use.

## Manufacturer:

Oxford Biomedical Research 2165 Avon Industrial Dr. Rochester Hills, MI 48309 (248) 852-8815

## Hazardous Components:

Component: Solution 8

**OPD** Tablets

Hazardous Content: Name: Sulfuric Acid, 1M CAS#: 7664-93-9 MP: H<sub>2</sub>SO<sub>4</sub>

Name: o-Phenylenediamine Dihydrochloride CAS #: 95-54-5 MP: N/A

# Physical and Chemical Characteristics:

Sulfuric Acid Boiling Point: Not determined Vapor Pressure: Not determined Vapor Density: Not determined Solubility in Water: Soluble

## o-Phenylenediamine Dihydrochloride

Unusual Fire and Explosion Hazards: Not determined

Boiling Point: Not determined Vapor Pressure: Not determined Vapor Density: Not determined Solubility in Water: Soluble

Fire and Explosion Hazard Data:

Sulfuric Acid Flash Point: Not determined Special Fire Fighting Measures: None Specific Gravity: Not determined Melting Point: N/A Evaporation Rate: Not determined Appearance: Clear liquid

Specific Gravity: Not determined Melting Point: Not determined Evaporation Rate: Not deteremined Appearance: Tablet

Flammable Limits: Not determined

## o-Phenylenediamine Dihydrochloride

Flash Point: Not determinedFlammable Limits: Not determinedSpecial Fire Fighting Measures: NoneUnusual Fire and Explosion Hazards: Not determinedFlash Point: Not determined

# Reactivity Data:

Sulfuric Acid Stability: Considered stable. Conditions to Avoid: N/A Hazardous Polymerization: Will not occur Hazardous Decomposition/ Byproducts: Sulfur Oxides Incompatibility with materials: Bases, Halides, organic materials

#### o-Phenylenediamine Dihydrochloride

Stability: Considered stable. Conditions to Avoid: N/A Hazardous Polymerization: Will not occur Hazardous Decomposition/ Byproducts: Carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride gas. Incompatibility with materials: N/A

# Health Hazard Data:

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Sulfuric Acid	
Threshold Limit Value:	Not established
Toxicity Data:	Toxic, Possible carcinogen
Health Hazards:	Corrosive, causes burns. Harmful by inhalation, ingestion or skin absorbtion. Destructive to the eyes,
	respiratory system and skin. Inhalation may be fatal or cause cancer.
First Aid:	If swallowed seek immediate medical attention. In case of contact with eyes or skin, flush with plenty of water and seek medical attention if inhaled, exposed to fresh air and seek medical attention.
o-Phenylenediamine Dihydrochloride	
Threshold Limit Value:	Not established
Toxicity Data:	Toxic, carcinogen
Health Hazards:	Toxi by inhalation, ingestion or skin absorbtion. Irritating to eyes skin and respiratory system.
First Aid:	If swallowed seek immediate medical attention. In case of contact with eyes or skin, flush with plenty of water and seek medical attention if inhaled, exposed to fresh air and seek medical attention.

## Handling and Use Precautions:

# Sulfuric Acid/ o-Phenylenediamine Dihydrochloride

-Accidental Release Measures: Wear suitable protective equipment to prevent inhalation, skin and eye contact. Sulfuric Acid: Dilute with large excess of water and pH to neutral. o-Phenylenediamine Dihydrochloride: none.

-Waste Disposal: Disposal shall be in accordance with local, state or federal guidelines.

-Handling and Storage: 4°C - 8°C

-Other: None

# Control Measures:

## Sulfuric Acid/ o-Phenylenediamine Dihydrochloride

-Respiratory Protection: None required where adequate ventilation exists.

-Ventilation: local exhaust.

-Protective Gloves: Proper disposable gloves.

-Eye Protection: Safety glasses or goggles.

-Other protective equipment: Uniform, lab coat or disposable lab wear.

-Work/Hygienic Practices: Follow usual precautionary measures for handling chemicals. Keep away from food and beverages.

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