

MATERIAL SAFETY DATA SHEET (MSDS)

Kidney Monitoring Rotor

I. Product and Company Identification

Product Name: Kidney Monitoring Rotor

Details of the supplier of the safety data sheet

Supplier: For Heska Corporation
Address: Hi-tech Zone, 611731 Chengdu, Sichuan, China
Telephone No: +86 28 69760308
Telefax No: +86 28 69760307

II. Hazard Identification

OSHA Hazards: No known OSHA hazards

GHS Hazards: Not a dangerous or hazardous substance or preparation according to the Global Harmonized System (GHS).

P308 + P313 If exposed or concerned: Get medical advice/attention

HMIS Ranking:
Health hazard 1
Flammability 0
Physical hazards 0

NFPA Rating:
Health hazard 1
Fire 0
Reactivity hazard 0

Potential Health Effects:
Inhalation May cause respiratory tract irritation
Skin May cause skin irritation
Eyes May cause eye irritation

III. Composition/Information on Ingredients

This product consists of reagent beads comprised of a mixture of low hazard lyophilized chemical beads enclosed in a plastic rotor. These beads are in concentrations not associated with human or environmental toxicity, which contain among the listed items, enzymes, preservatives and stabilizers in concentrations under 1%. Each rotor contains a cup of diluent containing less than 0.5 ml of water and preservatives in concentrations of less than 1%. Table 1 below lists the chemicals present in the panel.

TABLE 1

Ingredient	CAS#	Contents(g)
Piperazine-1,4-Two sulfonic acid	5625-37-6	5.70
hrp	9003-99-0	3000u
Creatine enzyme	37340-58-2	48000u
Muscle ammonia oxidase	9029-22-5	24000u
Four amino antipyrine	83-07-8	0.36
N-ethyl-N- (2-hydroxyl-3-Sulfate) -3-Methyl aniline sodium salt	82692-93-1	0.3
Creatininase amidohydrolase	9025-13-2	60000u
3-Morpholine propane sulfonic acid	1132-61-2	8
N-ethyl-N- (2-hydroxyl-3-sulfopropyl(SP)) -3-Methyl aniline sodium salt	82692-93-1	0.20
Urate enzyme	9002-12-4	75u
Four amino antipyrine	83-07-8	0.08
Adenosine monophosphate monophosphate two	72696-48-1	1.2

IV. First Aid Measures

In case of eye contact: Flush eyes with copious amounts of water for a minimum of 15 minutes

In case of inhalation: Allow the victim to rest in a well-ventilated area. Seek immediate medical attention

In case of skin contact: Flush exposed skin with copious amounts of water for a minimum of 15 minutes

In case of ingestion: Contact a physician in case of ingestion

V. Fire-Fighting Measures

No flammable properties are associated with this product.

<u>Extinguishing media:</u>	Use water spray, dry chemical or carbon dioxide
<u>Hazardous combustion products:</u>	May result in the formation of nitrogen and carbon oxides
<u>Special protective : equipment for firefighters:</u>	Wear self-contained breathing apparatus for firefighting if necessary
<u>Additional information:</u>	Combustion of the plastic rotor containing this preparation may result in toxic particulates and gases

VI. Accidental Release Measures

Personal precautions:

Eye Protection Wear safety goggles or a face shield when cleaning up spills

Skin Protection Wear protective attire that prevents contamination of skin and personal clothing

Hand Protection Wear nitrile or vinyl gloves that cover exposed skin

Other Protections Avoid breathing mists, dusts, and aerosols

Environmental Controls: Prevent spilled product from entering drains

Spill Clean-up Measures: Contain the material to prevent it from becoming airborne Place absorbent material on top of, and around the perimeter of the spill

Sweep up the spilled material and decontaminate the area with soap and water or an equivalent cleaner

VII. Handling and Storage

This product is to be stored inside its packaging at 2-8°C in a cool, dry location. Wear gloves when handling the product and wash hands after removing gloves.

VIII. Exposure Controls/Personal Protection

None of the chemicals in this preparation are assigned occupational exposure limits. This product can be safely handled under normal conditions with no controls.

Engineering Controls: Provide ventilation in work areas where this product is handled

Personal Protective Equipment: Safety glasses and chemical-resistant gloves recommended

IX. Physical and Chemical Properties

Physical state: Solid. Spherical lyophilized beads are enclosed in a sealed plastic package

Color: Multi-colored beads

Odor: Odorless

<u>Odor threshold:</u>	None established
<u>Chemical Properties:</u>	None available for <ul style="list-style-type: none"> • pH, Melting point • Boiling point • Flash point • Lower Explosive Limit • Upper Explosive Limit • Vapor pressure • Vapor density (air=1) • Density (g/cm³) • Water solubility (20°C in g/l) • Auto ignition temperature

X. Stability and Reactivity

<u>Reactivity:</u>	This preparation is not known to be reactive violently
<u>Chemical Stability:</u>	This preparation is known to be chemically stable
<u>Thermal Decomposition:</u>	Will decompose when burned
<u>Conditions to Avoid:</u>	Sunlight, heat (temperatures above 32°C)
<u>Incompatible Materials:</u>	No data available
<u>Hazardous Decomposition Products:</u>	No harmful decomposition products known
<u>Storage Conditions:</u>	Store under dry, in a cool (2-8°C), dry location

XI. Information on basis physical and chemical properties

Property	Value
Physical state	solid
Odour	None
Odour threshold:	Not applicable
Flash point:	Not applicable
Evaporation rate:	Not applicable
Flammability(solid, gas):	Not applicable
Upper/lower flammability or explosive limits:	Non explosive
Vapor density:	Not applicable
solubility in water	Insoluble.

Solubility in organic solvents:	insoluble in organic solvents
Partition coefficient n-octanol/water:	Not applicable
Auto-ignition temperature:	Not applicable
Decomposition temperature:	Not applicable
Viscosity:	Not applicable
Explosive properties:	Non explosive
Oxidizing properties:	No oxidizing properties

XII. ECOLOGICAL INFORMATION

Ecotoxicity:	N/A
Persistence and Degradability	THERE IS NO DATA AVAILABLE FOR THIS PRODUCT
Bioaccumulative Potential	THERE IS NO DATA AVAILABLE FOR THIS PRODUCT
Mobility in the Soil:	THERE IS NO DATA AVAILABLE FOR THIS PRODUCT
Additional Ecological Information:	THERE IS NO DATA AVAILABLE FOR THIS PRODUCT

XIII. DISPOSAL CONSIDERATIONS

Waste Disposal:
 FOLLOW ALL FEDERAL, STATE AND LOCAL REGULATIONS FOR NON-HAZARDOUS WASTE DISPOSAL.

XIV. TRANSPORT INFORMATION

DOT Classification:	NOT REGULATED
IMDG Classification:	NOT REGULATED
TDG Classification:	NOT REGULATED
IATA Classification:	NOT REGULATED
RID:	NOT REGULATED

XV. REGULATORY INFORMATION

This safety data sheet complies with the requirements of EU Regulations 1907/2006 (REACH), 1272/2008 (CLP) & 453/2010.

XVI. Other information

This document is based on our present knowledge and relevant scientific literatures. Labnovation Technologies, Inc. makes no warranty or representation as to its accuracy, or validity. Users should consider these data only as supplement to other information gathered by them and must make independent determination of the suitability and completeness of information from all sources to ensure proper use and disposal of these materials and for the safety and health of employees and customers. If for internal purposes only, unlimited paper copies of this MSDS are permitted.