# MATERIAL SAFETY DATA SHEET (MSDS)

# **Bovine Monitoring Rotor**

# I. Product and Company Identification

Product Name: Bovine Monitoring Rotor

# Details of the supplier of the safety data sheet

Supplier:For Heska CorporationAddress:Hi-tech Zone, 611731 Chengdu, Sichuan, ChinaTelephone No:+86 28 69760308Telefax No:+86 28 69760307

# II. Hazard Identification

OSHA Hazards:	No known OSHA hazards
<u>GHS Hazards</u> :	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
<u>HMIS Ranking</u> : Health hazard Flammability Physical hazards	1 0 0
<u>NFPA Rating</u> : Health hazard Fire Reactivity hazard	1 0 0
<u>Potential Health Effects</u> : Inhalation Skin Eyes	May cause respiratory tract irritation May cause skin irritation 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)
Blue copperas	7758-99-8	1.13
Piperazine-1,4-Two sulfonic acid	5625-37-6	2.51
Cholesterol dehydrogenase	9035-82-9	7950u
Bromo cresol green	76-60-8	0.45
L-r-Glutamine carboxyl-4-Phenyl diazotriate	63699-78-5	0.65
Trihydroxymethyl aminomethane	77-86-1	4.55
4-pNPP	4264-83-9	0.69
Malate dehydrogenase	9001-64-3	3000u
N-ethyl-N-(2-hydroxyl-3-Sulfate)-3-Methyl aniline sodium salt	82692-93-1	0.3g
L-alanine	56-41-7	12.00
Nicotinamide adenine dinucleotide	53-84-9	0.89g
hrp	9003-99-0	3000u
α -ketoglutaric acid disodium saltdihydrate	305-72-6	2.63
Lactate dehydrogenase	9028-36-8	15000u

## **IV. First Aid Measures**

<u>In case of eye contact</u>: Flush eyes with copious amounts of water for a minimum of 15 minutes <u>In case of inhalation</u>: Allow the victim to rest in a well-ventilated area. Seek immediate medical attention <u>In case of skin contact</u>: Flush exposed skin with copious amounts of water for a minimum of 15 minutes <u>In case of ingestion</u>: Contact a physician in case of ingestion

V. Fire-Fighting Measures

No flammable properties are associated with this product.

Extinguishing media:	Use water spray, dry chemical or carbon dioxide
Hazardous combustion products:	May result in the formation of nitrogen and carbon oxides
Special protective : equipment for firefighters:	Wear self-contained breathing apparatus for firefighting if necessary
Additional information:	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
<u>Personal Protective</u> <u>Equipment</u> :	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
<u>Color</u> :	Multi-colored beads

Odor:

Odorless

Odor threshold:

Chemical Properties:

None established None available for

- 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

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

## XI. Information on basis physical and chemical properties

Property	Value
Phisical 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	Non explosive
explosive limits:	
Vapor density:	Not applicable

solubility in water	Insoluble.
Solubility in organic solvents:	insoluble in organic solvents
Partition coefficient n-	Not applicable
octanol/water:	
Auto-ignition temperature:	Not applicable
Decomposition temperature:	Not applicable
Viscosity:	Not applicable
Explosive propeties:	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

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