

**1 Identification of the substances/ mixture and of the company/ undertaking****1.1 Product Identifiers**

Product Number MB522  
Product Name HiPurA<sup>®</sup> Sperm Genomic DNA Purification Kit  
REACH Registration Number Reach registration number is not available for this mixture. The annual tonnage does not require a REACH registration.

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

**1.2.1** Relevant identified uses InVitro Diagnostic Use

**1.3 Details of the supplier of the safety data sheet**

Produced by HiMedia Laboratories Private Limited  
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Tel. No. +91-22-6147 1919/6116 9797 Fax No. :+91-22-61471920  
Mail Id [mb@himedialabs.com](mailto:mb@himedialabs.com) Website : [www.himedialabs.com](http://www.himedialabs.com)

**1.4 Emergency Tel. No.**

Emergency Tel. No. Please contact the regional HiMedia representation in your country

**2 Hazards Identification****2.1 Classification of the substance or mixture*****CLP Classification-Regulation (EC) No. 1272/2008[EU-GHS/CLP]***

Flammable solids, (Category 2), H228  
Acute toxicity, Oral, (Category 4), H302  
Acute toxicity, Inhaled, (Category 4), H332  
Skin corrosion or irritation, (Category 2), H315  
Serious eye damage or eye irritation, (Category 1), H318  
Specific target organ toxicity, single exposure, Respiratory tract irritation, (Category 3), H335  
Hazardous to the aquatic environment, long term hazard, (Category 3), H412  
Serious eye damage or eye irritation, (Category 2A), H319  
Sensitisation, respiratory, (Category 1), H334  
For the full text of the H-Statements mentioned in this Section, See Section 16

**2.2 Label elements*****Labeling according to Regulation (EC) No.1272/2008***

Pictogram

Signal word Danger

Hazard Statement(s)

H228 Flammable solid

H302 Harmful if swallowed

- H332 Harmful if inhaled  
 H315 Causes skin irritation  
 H318 Causes serious eye damage  
 H335 May cause respiratory irritation  
 H412 Harmful to aquatic life with long lasting effects  
 H319 Causes serious eye irritation  
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

Precautionary Statement(s)

- P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.  
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P301+P312+P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.  
 P304 + P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.  
 P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
 P337 + P313 IF eye irritation persists: Get medical advice/attention.  
 P342 + P311 IF experiencing respiratory symptoms: call a POISON CENTER or doctor/physician.

**2.3 Other Hazards**

None

**3 Composition/Information On Ingredients**

**3.2 Mixture**

Component	Classification	Concentration
Lauryl sulphate sodium salt, For Molecular Biology		
CAS No. : 151-21-3 EC No. : 205-788-1 Molecular Formula : C <sub>12</sub> H <sub>25</sub> NaO <sub>4</sub> S Molecular Weight : 288.38	<b>As Per EC Regulation 1272/2008</b> Flam. Sol. 1; Acute Tox. oral, inhal, 4; Skin Irrit. 2; Eye Dam. 1; STOT SE 3; Aquatic Chronic 3 H228; H302+H332; H315; H318; H335; H412	>=5 - <=10%

Component	Classification	Concentration
Guanidine hydrochloride, For Molecular Biology		
CAS No. : 50-01-1	<b>As Per EC Regulation 1272/2008</b>	>=25 - <=50%

EC No. :	200-002-3	Acute Tox.oral 4; Skin Irrit. 2; Eye Irrit. 2A H302; H315; H319	
Molecular Formula :	CH <sub>5</sub> N <sub>3</sub> .HCl		
Molecular Weight :	95.53		

Component	Classification	Concentration	
Proteinase K, from Tritirachium album (ex. Pichia Pastoris, Recombinant, PCR grade) For Molecular Biology			
CAS No. :	39450-01-6	<b>As Per EC Regulation 1272/2008</b> Skin Irrit. 2; Eye Irrit. 2A; Resp. Sens. 1; STOT SE 3 H315; H319; H334; H335	>=95 - <=100%
EC No. :	254-457-8		
Molecular Weight :	28.93 kDa		

Component	Classification	Concentration	
DL-DTT, For Molecular Biology			
CAS No. :	3483-12-3	<b>As Per EC Regulation 1272/2008</b> Acute Tox.oral 4; Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3 H302; H315; H319; H335	>=95 - <=100%
EC No. :	222-468-7		
Molecular Formula :	C <sub>4</sub> H <sub>10</sub> O <sub>2</sub> S <sub>2</sub>		
Molecular Weight :	154.25		

#### 4 First Aid Measures

##### 4.1 Description of first aid measures

###### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

###### **If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

###### **In case of skin contact**

Wash with plenty of soap and water. Consult a physician.

###### **In case of eye contact**

Rinse immediately with plenty of water for at least 15 minutes. Consult a physician.

###### **If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

##### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

##### 4.3 Indication of immediate medical attention and special treatment needed

Treat symptomatically.

#### 5 Fire Fighting Measures

##### 5.1 Extinguishing media

###### **Suitable extinguishing media**

Use water spray, alcohol- resistant foam, dry chemical or carbon dioxide

***Unsuitable extinguishing media***

No data available.

**5.2 Special hazards arising from the substance or mixture**

No data available.

**5.3 Precautions for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary

**5.4 Further information**

No data available

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**6 Accidental Release Measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

Wear respiratory protection. Avoid breathing vapours, mist or gas. Wear disposable gloves, dust mask and eye protection.

**6.2 Environmental precautions**

No special environmental precautions required.

**6.3 Methods and materials for containment and cleaning up**

Soak up with inert adsorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. Clean up affected area. Flush spill area with water.

**6.4 Reference to other sections**

For disposal see Section 13.

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**7 Handling and Storage**

**7.1 Precautions for safe handling**

For precautions see section 2.2.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

***Recommended Storage Temperature*** : Store between 15-25°C

**7.3 Specific end uses**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

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**8 Exposure Controls/Personal Protection**

**8.1 Control parameters**

Components with workplace control parameters

**8.2 Exposure controls**

***Appropriate engineering controls***

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the products.

***Personal protective equipment***

***Hygiene measure***

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with the product.

***Eye/face protection***

Tightly fitting safety goggles; Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

**Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**Body protection**

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Environment exposure controls**

No special environmental precautions required.

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**9 Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

Odour	No data available
Odour Threshold	No data available
pH	No data available
Melting/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Upper/lower flammability or explosive limits	No data available
Evaporation rate	No data available
Flammability (Solid, gas)	No data available
Vapour pressure	No data available
Relative density	No data available
Water Solubility	No data available
Partition coefficient: n-octanol/water	No data available
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available
Vapour density	No data available
Thermal decomposition	No data available

**9.2 Other safety information**

No data available

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**10 Stability and Reactivity**

**10.1 Reactivity**

No data available

**10.2 Chemical stability**

Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**

No data available

**10.4 Conditions to avoid**

No data available

**10.5 Incompatible materials**

No data available

**10.6 Hazardous decomposition products**

Other Decomposition products. No Data Available

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**11 Toxicological Information**

**11.1 Information on toxicological effects**

***Acute toxicity***

No data available

***Skin corrosion/irritation***

No data available

***Serious eye damage/eye irritation***

No data available

***Respiratory or skin sensitisation***

No data available

***Germ cell mutagenicity***

No data available

***Carcinogenicity***

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

***Reproductive toxicity***

No data available

***Specific target organ toxicity- single exposure***

No data available

***Aspiration hazard***

No data available

***Potential Health Effects***

***Inhalation***

REFER SECTION 2

***Skin***

REFER SECTION 2

***Eyes***

REFER SECTION 2

***Ingestion***

REFER SECTION 2

***Additional Information***

RTECS : Not applicable

## **12 Ecological Information**

### **12.1 Toxicity**

No data available

### **12.2 Persistence and degradability**

No data available

### **12.3 Bioaccumulative potential**

No data available

### **12.4 Mobility in soil**

No data available

### **12.5 PBT and vPvB assessment**

No data available

### **12.6 Other adverse effects**

No data available

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## **13 Disposal Considerations**

### **13.1 Waste treatments methods**

#### **Product**

Offer surplus and non- recyclable solutions to a licenced company.

### **13.2 Contaminated packaging**

Dispose of as unused product.

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## **14 Transport Information**

### **14.1 UN-No**

ADNR : ADR : IATA\_C : IATA\_P : IMDG : RID :

### **14.2 UN proper shipping name**

ADNR : Not dangerous goods

ADR : Not dangerous goods

IATA\_C : Not dangerous goods

IATA\_P : Not dangerous goods

IMDG : Not dangerous goods

RID : Not dangerous goods

### **14.3 Transport hazard class(es)**

ADNR : - ADR : - IATA\_C : - IATA\_P : - IMDG : - RID : -

### **14.4 Packaging group**

ADNR : ADR : IATA\_C : IATA\_P : IMDG : RID :

### **14.5 Environmental hazards**

ADNR : No ADR : No IMDG : Marine Pollutant : No IATA\_C : No IATA\_P : No RID : No

### **14.6 Special precautions for use**

No data available

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## **15 Regulatory Information**

### **15.1 Safety health and environment regulations/legislation specific for the substance or**

**mixture**

No data available

**15.2 Chemical Safety Assessment**

No data available

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**16 Other information**

H228	Flammable solid
H302	Harmful if swallowed
H302+H332	Harmful if swallowed or if inhaled
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H412	Harmful to aquatic life with long lasting effects
Acute Tox. oral, inhal, 4	Harmful if swallowed or if inhaled
Acute Tox.oral 4	Acute toxicity, oral, Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment, long term hazard, Category 3
Eye Dam. 1	Serious eye damage or eye irritation, Category 1
Eye Irrit. 2A	Serious eye damage or eye irritation, Category 2A
Flam. Sol. 1	Flammable solids, Category 1
Resp. Sens. 1	Sensitisation, respiratory, Category 1
Skin Irrit. 2	Skin corrosion or irritation, Category 2
STOT SE 3	Specific target organ toxicity, single exposure, Respiratory tract irritation, Category 3

**Further Information**

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The information given in this safety data sheet is believed to be correct yet does not claim to be all inclusive. This document is intended only as a guide for appropriate precautionary handling of the material by properly trained individuals, information here being commensurate with the present state of our knowledge regarding the manner and conditions of use, handling, storage or disposal. The information provided herein shall not be considered as guarantee of the properties of the product. HiMedia Laboratories, shall not be held liable for any damage resulting from improper handling or contact with the above product. Unless explicitly stated on the product or in any of the documentation accompanying the product, it is intended for research or testing purpose only and is not to be used for any other purpose.