1 Identification of the substances/ mixture and of the company/ undertaking

1.1 Product Identifiers
Product Number MB617
Product Name HiPurA® All Blood RNA Purification Kit
REACH Registration Number Reach registration number is not available for this mixture. The annual tonnage does not require a REACH registration or it is envisaged for a later registration deadline.

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
Address 23, Vadhani Industrial Estate, LBS Marg, Ghatkopar (W), Mumbai - 400 086 India
Tel. No. +91-22-2500 0970, +91-22-2500 1607 Fax No. +91-22-25002468
Mail Id mb@himedialabs.com
Website: 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]
Acute toxicity, Oral, (Category 4), H302
Acute toxicity, Dermal, (Category 4), H312
Skin corrosion or irritation, (Category 1C), H314
Skin corrosion or irritation, (Category 2), H315
Serious eye damage or eye irritation, (Category 1), H318
Serious eye damage or eye irritation, (Category 2A), H319
Acute toxicity, Inhaled, (Category 4), H332
Hazardous to the aquatic environment, acute hazard, (Category 3), H402
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)
H302 Harmful if swallowed
H312  Harmful in contact with skin  
H314  Causes severe skin burns and eye damage  
H315  Causes skin irritation  
H318  Causes serious eye irritation  
H319  Causes serious eye damage  
H332  Harmful if inhaled  
H402  Harmful to aquatic life  

Precautionary Statement(s)  
P260  Do not breathe dust/fume/gas/mist/vapours/spray.  
P264  Wash hands thoroughly after handling. Wash skin thoroughly after handling.  
P270  Do not eat, drink or smoke when using this product.  
P273  Avoid release to the environment.  
P280  Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P351+P330  IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.  
P305+P351+P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310  Immediately call a POISON CENTER or doctor/physician.  
P321  Specific treatment (see on this label).  
P363  Wash contaminated clothing before reuse.  

2.3 Other Hazards  
None  

3 Composition/Information On Ingredients  
3.2 Mixture  

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triton® X-100, For Molecular Biology</td>
<td>As Per EC Regulation 1272/2008</td>
<td>&gt;=10 - &lt;=20%</td>
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<tr>
<td>CAS No. : 9002-93-1</td>
<td>Acute Tox. Oral 4; Eye Dam. 1 H302; H318</td>
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<td>Molecular Formula : C₃₄H₆₂O₁₁</td>
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<tr>
<th>Component</th>
<th>Classification</th>
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<tbody>
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<td>Guanidine thiocyanate, For Molecular Biology</td>
<td>As Per EC Regulation 1272/2008</td>
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<tr>
<td>CAS No. : 593-84-0</td>
<td>Acute Tox. Oral, dermal, inhal, 4; Skin Corr. 1A; Aquatic Chronic 3</td>
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<td>EC No. : 209-812-1</td>
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<td>Molecular Formula : CH₅N₃.CHNS</td>
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### Component Classifications and Concentrations

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<tr>
<th>Component</th>
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<th>Concentration</th>
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<tbody>
<tr>
<td>Guanidine hydrochloride, For Molecular Biology</td>
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<td>CAS No. : 50-01-1</td>
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<td>EC No. : 200-002-3</td>
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<td>Acute Tox.oral 4; Skin Irrit. 2; Eye Irrit. 2A H302; H315; H319</td>
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<table>
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<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
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</thead>
<tbody>
<tr>
<td>Ammonium chloride, For Molecular Biology</td>
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<td>CAS No. : 12125-02-9</td>
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<td>EC No. : 235-186-4</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
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<tbody>
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<td>CAS No. : 6381-92-6</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Eye Irrit. 2A H319</td>
<td></td>
</tr>
</tbody>
</table>

### 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.

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.

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.

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.

### 9 Physical and chemical properties

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

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

#### 9.2 Other safety information
No data available
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

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
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

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.

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
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

16 Other information

H302  Harmful if swallowed
H302+H312+H332  Harmful if swallowed, in contact with skin or if inhaled
H314  Causes severe skin burns and eye damage
H315  Causes skin irritation
H318  Causes serious eye damage
H319  Causes serious eye irritation
H411  Toxic to aquatic life with long lasting effects
H412  Harmful to aquatic life with long lasting effects
Acute Tox. Oral, dermal, inhal, 4  Harmful if swallowed, in contact with skin or if inhaled
Acute Tox. oral 4  Acute toxicity, oral, Category 4
Aquatic Chronic 2  Hazardous to the aquatic environment, long term hazard, Category 2
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
Skin Corr. 1A  Skin corrosion or irritation, Category 1A
Skin Irrit. 2  Skin corrosion or irritation, Category 2

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.