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

1.1 Product Identifiers
   Product Number: DS0027
   Product Name: PCR Binding Solution (SPB)
   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
   Laboratory chemicals, Manufacture of substances

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

Hazard Identification

2.1 Classification of the substance or mixture
   CLP Classification-Regulation (EC) No. 1272/2008[EU-GHS/CLP]
   Flammable liquids, (Category 2), H225
   Acute toxicity, Oral, (Category 4), H302
   Skin corrosion or irritation, (Category 2), H315
   Serious eye damage or eye irritation, (Category 2A), H319
   Acute toxicity, Inhaled, (Category 4), H332
   Specific target organ toxicity, single exposure, Narcotic effects, (Category 3), H336
   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)
   H225: Highly Flammable liquid and vapour
   H302: Harmful if swallowed
   H315: Causes skin irritation
H319 Causes serious eye irritation
H332 Harmful if inhaled
H336 May cause drowsiness or dizziness

Precautionary Statement(s)
P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
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.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 IF eye irritation persists: Get medical advice/attention.

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>Guanidine hydrochloride</td>
<td>As Per EC Regulation 1272/2008</td>
<td>&gt;=25 - &lt;=30%</td>
</tr>
<tr>
<td>CAS No. : 50-01-1</td>
<td>Acute Tox.oral 4; Skin Irrit. 2; Eye Irrit.</td>
<td></td>
</tr>
<tr>
<td>EC No. : 200-002-3</td>
<td>2A; Acute Tox.Inhal. 4 H302; H315; H319; H332</td>
<td></td>
</tr>
<tr>
<td>Index-No : 607-148-00-0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Molecular Formula : CH₅N₃.HCl</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Molecular Weight : 95.53</td>
<td></td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanol</td>
<td>As Per EC Regulation 1272/2008</td>
<td>&gt;=25 - &lt;=30%</td>
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<tr>
<td>CAS No. : 67-63-0</td>
<td>Flam. Liq. 2; Eye Irrit. 2A; STOT SE 3</td>
<td></td>
</tr>
<tr>
<td>EC No. : 200-661-7</td>
<td>H225; H319; H336</td>
<td></td>
</tr>
<tr>
<td>Index-No : 603-117-00-0</td>
<td></td>
<td></td>
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<tr>
<td>Molecular Formula : C₃H₈O</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Molecular Weight : 60.10</td>
<td></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>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid</td>
</tr>
<tr>
<td>Odour</td>
<td>No data available</td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>No data available</td>
</tr>
</tbody>
</table>
### 9.2 Other safety information

- pH: No data available
- Flash point: No data available
- Evaporation rate: 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

### 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

<table>
<thead>
<tr>
<th>Toxicity</th>
<th>Acute toxicity</th>
<th>Respiratory or skin sensitisation</th>
<th>Skin corrosion/irritation</th>
<th>Sun damage/eye irritation</th>
<th>Skin damage</th>
<th>Skin sensitisation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contingency</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
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<tr>
<td>Germ cell mutagenicity</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>

### 11.2 Information on ecotoxicological effects

- No data available

### 11.3 Information on genetic toxicity

- No data available

### 11.4 Information on hazardous properties

- No data available

### 11.5 Information on occupational exposure limits

- No data available

### 11.6 Other information

- Other information on toxicological effects: 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

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

H225 Highly Flammable liquid and vapour
H302 Harmful if swallowed
H315 Causes skin irritation
H319 Causes serious eye irritation
H332 Harmful if inhaled
H336 May cause drowsiness or dizziness
Acute Tox.inhal. 4 Acute toxicity, inhaled, Category 4
Acute Tox.oral 4 Acute toxicity, oral, Category 4
Eye Irrit. 2A Serious eye damage or eye irritation, Category 2A
Flam. Liq. 2 Flammable liquids, Category 2
Skin Irrit. 2 Skin corrosion or irritation, Category 2
STOT SE 3 Specific target organ toxicity, single exposure, Narcotic effects, Category 3

Further Information

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