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

### 1.1 Product Identifiers

| | |
|---|---|
| Product Number | MBP008 |
| Product Name | Alkaline Hemoglobin Electrophoresis Kit (No Destaining Required)<br>For detection of Sickle Cell Anemia |
| 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 | | |
| Reg Address | C-40, Road No.21Y, MIDC, Wagle Industrial Area, Thane(W), - 400 604, India | | |
| Tel. No. | +91-22-6147 1919/6116 9797 | Fax No. | :+91-22-61471920 |
| 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 |

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## 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
Skin corrosion or irritation, (Category 2), H315
Serious eye damage or eye irritation, (Category 2A), H319
Acute toxicity, Inhaled, (Category 3), H331
Carcinogenicity, (Category 2), H351
Specific target organ toxicity, single exposure, Narcotic effects, (Category 3), H336
Reproductive toxicity, (Category 2), H361d
Specific target organ toxicity, repeated exposure, (Category 1), H372
Oxidising liquids, (Category 1), H271
Skin corrosion or irritation, (Category 1A), H314

### 2.2 Label elements

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

Pictogram
Signal word Danger

Hazard Statement(s)

H302 Harmful if swallowed

| | |
|---|---|
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |
| H331 | Toxic if inhaled |
| H351 | Suspected of causing cancer |
| H336 | May cause drowsiness or dizziness |
| H361d | Suspected of damaging the unborn child |
| H372 | Causes damage to organs through prolonged or repeated exposure |
| H271 | May cause fire or explosion; strong oxidiser |
| H314 | Causes severe skin burns and eye damage |

Precautionary Statement(s)

| | |
|---|---|
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P301+P310+P330 | IF SWALLOWED : Immediately call a POISON CENTER/doctor. Rinse mouth. |
| P302 + P352 | IF ON SKIN: wash with plenty of soap and water. |
| P310 | Immediately call a POISON CENTER or doctor/physician. |
| P391 | Collect spillage. |
| P501 | Dispose of contents/container to an approved waste disposal plant. |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P281 | Use personal protective equipment as required. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P311 | Call a POISON CENTER or doctor/physician. |
| P337 + P313 | IF eye irritation persists: Get medical advice/attention. |

**2.3 Other Hazards**

None

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## 3 Composition/Information On Ingredients

### 3.2 Mixture

| Component | Classification | Concentration |
|---|---|---|
| Sodium azide For Molecular Biology | | |
| CAS No. : 26628-22-8<br>EC No. : 247-852-1<br>Molecular Formula : $NaN_3$<br>Molecular Weight : 65.01 | **As Per EC Regulation 1272/2008**<br>Acute Tox. Oral, dermal 1,2; STOT RE 2; Aquatic Chronic 1 H300+H310; H373; H410 | >=0.1 - <=0.2% |

| Component | Classification | Concentration |
|---|---|---|
| Chloroform, For Molecular Biology | | |
| CAS No. : 67-66-3<br>EC No. : 200-663-8<br>Index-No : 602-006-00-4<br>Molecular Formula : $CHCl_3$<br>Molecular Weight : 119.38 | **As Per EC Regulation 1272/2008**<br>Acute Tox.oral 4; Skin Irrit. 2; Eye Irrit. 2A; Acute Tox. inhal. 3; STOT SE 3; Carc. 2; Repr. 2; STOT RE 1 H302; H315; H319; H331; H336; H351; H361d; H372 | >=99 - <=100% |

| Component | Classification | Concentration |
|---|---|---|
| Carbinol, For Molecular Biology | | |
| CAS No. : 67-56-1<br>EC No. : 200-659-6<br>Index-No : 603-001-00-X<br>Molecular Formula : $CH_3OH$<br>Molecular Weight : 32.04 | **As Per EC Regulation 1272/2008**<br>Flam. Liq. 2; Acute Tox.oral. 3; Acute Tox. dermal. 3; Acute Tox. inhal. 3; STOT SE 1 H225; H301; H311; H331; H370 | >=40 - <=60% |

| Component | Classification | Concentration |
|---|---|---|
| Acetic acid, For Molecular Biology | | |
| CAS No. : 64-19-7<br>EC No. : 200-580-7<br>Index-No : 607-002-00-6<br>Molecular Formula : $C_2H_4O_2$<br>Molecular Weight : 60.05 | **As Per EC Regulation 1272/2008**<br>Flam. Liq. 3; Skin Corr. 1A H226; H314 | >=90 - <=100% |

## 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

Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For disposal see Section 13.

## 7 Handling and Storage

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. 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 15-30°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 saftey 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

| | |
|---|---|
| Appearance | No data available |
| 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 |
| Upper/lower flammability or explosive limits | No data available |
| Evaporation rate | No data available |
| Flammability (Solid, gas) | 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**

Incompatible material

**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

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**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 licensed disposal company. Dissolve or mix the material with a combustive solvent and burn in chemical incinerator equipped with an afterburner and scrubber.

**13.2 Contaminated packaging**
Dispose of as unused product.

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**14 Transport Information**

**14.1 UN-No**
ADNR : 1888 ADR : 1888 IATA_C : 1888 IATA_P : 1888 IMDG : 1888 RID : 1888

**14.2 UN proper shipping name**

| | | |
|---|---|---|
| ADNR | : | Chloroform |
| ADR | : | Chloroform |
| IATA_C | : | Chloroform |
| IATA_P | : | Chloroform |
| IMDG | : | Chloroform |
| RID | : | Chloroform |

**14.3 Transport hazard class(es)**
ADNR : 6.1 ADR : 6.1 IATA_C : 6.1 IATA_P : 6.1 IMDG : 6.1 RID : 6.1

**14.4 Packaging group**

ADNR : III ADR : III IATA_C : III IATA_P : III IMDG : III RID : III

**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**

| | |
|---|---|
| H225 | Highly flammable liquid and vapour |
| H226 | Flammable liquid and vapour |
| H300+H310 | Fatal if swallowed or in contact with skin |
| H301 | Toxic if swallowed |
| H302 | Harmful if swallowed |
| H311 | Toxic in contact with skin |
| H314 | Causes severe skin burns and eye damage |
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |
| H331 | Toxic if inhaled |
| H336 | May cause drowsiness or dizziness |
| H351 | Suspected of causing cancer |
| H361d | Suspected of damaging the unborn child |
| H370 | Causes damage to organs |
| H372 | Causes damage to organs through prolonged or repeated exposure |
| H373 | May cause damage to organs through prolonged or repeated exposure |
| H410 | Very toxic to aquatic life with long lasting effects |
| Acute Tox. dermal. 3 | Acute toxicity, dermal, Category 3 |
| Acute Tox. inhal. 3 | Acute toxicity, inhaled, Category 3 |
| Acute Tox. Oral, dermal 1,2 | Fatal if swallowed or in contact with skin |
| Acute Tox.oral 4 | Acute toxicity, oral, Category 4 |
| Acute Tox.oral. 3 | Acute toxicity, oral, Category 3 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment, long term hazard, Category 1 |
| Carc. 2 | Carcinogenicity, Category 2 |
| Eye Irrit. 2A | Serious eye damage or eye irritation, Category 2A |
| Flam. Liq. 2 | Flammable liquids, Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| Repr. 2 | Reproductive toxicity, Category 2 |
| Skin Corr. 1A | Skin corrosion or irritation, Category 1A |
| Skin Irrit. 2 | Skin corrosion or irritation, Category 2 |
| STOT RE 1 | Specific target organ toxicity, repeated exposure, Category 1 |

| | |
|---|---|
| STOT RE 2 | Specific target organ toxicity, repeated exposure, Category 2 |
| STOT SE 1 | Specific target organ toxicity, single exposure, Category 1 |
| STOT SE 3 | Specific target organ toxicity, single exposure, Narcotic effects, Category 3 |

**Further Information**


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.