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

1.1 Product Identifiers

Product Number	MBP001
Product Name	Alkaline Hemoglobin Electrophoresis 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		
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 2), H300
Acute toxicity, Oral, (Category 4), H302
Skin corrosion or irritation, (Category 2), H315
Acute toxicity, Inhaled, (Category 3), H331
Specific target organ toxicity, repeated exposure, (Category 2), H373
Hazardous to the aquatic environment, acute hazard, (Category 1), H400
Hazardous to the aquatic environment, long term hazard, (Category 1), H410
Carcinogenicity, (Category 2), H351
Flammable liquids, (Category 2), H225
Acute toxicity, Oral, (Category 3), H301
Acute toxicity, Dermal, (Category 3), H311
Specific target organ toxicity, single exposure, (Category 1), H370
Flammable liquids, (Category 3), H226
Skin corrosion or irritation, (Category 1A), H314
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)

H300	Fatal if swallowed
H302	Harmful if swallowed
H315	Causes skin irritation
H331	Toxic if inhaled
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H351	Suspected of causing cancer
H225	Highly flammable liquid and vapour
H301	Toxic if swallowed
H311	Toxic in contact with skin
H370	Causes damage to organs
H226	Flammable liquid and vapour
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.
P210	Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.

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 EC No. : 247-852-1 Molecular Formula : NaN_3 Molecular Weight : 65.01	**As Per EC Regulation 1272/2008** 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 EC No. : 200-663-8 Index-No : 602-006-00-4 Molecular Formula : $CHCl_3$ Molecular Weight : 119.38	**As Per EC Regulation 1272/2008** 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
Methanol, For Molecular Biology		
CAS No. : 67-56-1 EC No. : 200-659-6 Index-No : 603-001-00-X Molecular Formula : CH_3OH Molecular Weight : 32.04	**As Per EC Regulation 1272/2008** 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 EC No. : 200-580-7 Index-No : 607-002-00-6 Molecular Formula : $C_2H_4O_2$ Molecular Weight : 60.05	**As Per EC Regulation 1272/2008** 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.

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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.

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.

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

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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 licenced company.

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.