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

1.1 Product Identifiers
- Product Number: R092
- Product Name: Mcfarland standard set
- REACH Registration Number: This product is a mixture. Reach registration number is not available for this mixture.

1.2 Relevant identified uses of the substance or mixture and uses advised against
1.2.1 Relevant identified uses: Laboratory Chemicals, Analytical Purpose, Biochemical Analysis
For 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: info@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]
- Not a hazardous substance or mixture according to Regulation (EC) No.1272/2008.

2.2 Label elements
- Labeling according to Regulation (EC) No.1272/2008
- The product does not need to be labelled in accordance with EC directives or respective national laws.

2.3 Other Hazards
- None

3 Composition/Information On Ingredients

3.2 Mixture
- The components of this mixture need not be disclosed as per the regulations.

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

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

**In case of skin contact**
Wash off with soap and plenty of 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 if feeling unwell.

### 4.2 Most important symptoms and effects, both acute and delayed
No data available.

### 4.3 Indication of immediate medical attention and special treatment needed
No data available.

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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
Nature of decomposition products unknown

#### 5.3 Precautions for fire-fighters
Wear full protective clothing and 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
Avoid breathing vapours, mist or gas. Wear respiratory protection. Ensure adequate ventilation. Evacuate personnel to safe areas.

#### 6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

#### 6.3 Methods and materials for containment and cleaning up
Soak up with inert absorbent material. Place material in a suitable, closed containers for disposal. Dispose off properly

#### 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
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection.

#### 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**: On receipt store between 2-8°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**
Faceshield and 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). Have eye-washing facilities readily available where eye contact can occur.

**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**
Do not empty into drains.

### 9 Physical and chemical properties

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

**Appearance**
Each tube contains 10ml of solution with settled white precipitate. On thorough mixing, each tube will form a turbid solution with increasing opacity from McFarland Standard 0.5 to McFarland Standard 4.

**Odour Threshold**
No data available
pH
Melting/freezing point
Initial boiling point and boiling range
Flash point
Flammability (Solid, gas)
Vapour pressure
Relative density
Partition coefficient: n-octanol/water
Autoignition Temperature
Decomposition Temperature
Explosive properties
Oxidizing properties
Vapour density
Thermal decomposition

9.2 Other safety information
No data available

10 Stability and Reactivity
10.1 Reactivity
No data available
10.2 Chemical stability
No data available
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
Refer Section 5.2

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

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
This substance or mixture contains no components considered to be persistent, bioaccumulating nor toxic (PBT) at levels of 0.1% or higher.

12.6 Other adverse effects
No data available

13.1 Waste treatments methods
Product
Offer surplus and non-recyclable solutions to a licenced disposal company. Contact a licenced professional waste disposal service to dispose off this material.

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
This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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

Further Information

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