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

1.1 Product Identifiers
Product Number: M1209
Product Name: *Fluconazole Testing Medium (Twin Pack)
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

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
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<tbody>
<tr>
<td>Calcium chloride, anhydrous</td>
<td>As Per EC Regulation 1272/2008</td>
<td>&gt;=0.1 - &lt;=1.0%</td>
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<tr>
<td>CAS No.: 10043-52-4</td>
<td>Eye Irrit. 2A H319</td>
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<td>EC No.: 233-140-8</td>
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<td>Component</td>
<td>Classification</td>
<td>Concentration</td>
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<tr>
<td>-------------------------------</td>
<td>----------------------------------------------------------</td>
<td>-----------------</td>
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<td>Nicotinic acid</td>
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<td>Eye Irrit. 2A</td>
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<tr>
<td>EC No. : 200-441-0</td>
<td>H319</td>
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<td>Boric acid</td>
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<td>CAS No. : 10043-35-3</td>
<td>Repr. Tox. 1A, 1B</td>
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<td>EC No. : 233-139-2</td>
<td>H360</td>
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<td>Index-No : 005-007-00-2</td>
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<tr>
<td>CAS No. : 7446-19-7</td>
<td>Eye Dam. 1; Aquatic Chronic 1</td>
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<tr>
<td>EC No. : 231-793-3</td>
<td>H318; H410</td>
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<tr>
<td>p-Amino benzoic acid (PABA)</td>
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<td>CAS No. : 150-13-0</td>
<td>Skin Irrit. 2; Skin Sens. 1; Eye Irrit. 2A</td>
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<td>EC No. : 205-753-0</td>
<td>H315; H317; H319</td>
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<td>CAS No. : 7705-08-0</td>
<td>Met. Corr. 1; Acute Tox. oral 4; Skin Irrit. 2; Eye Dam. 1</td>
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<td>EC No. : 231-847-6</td>
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<td>Potassium iodide</td>
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<td>CAS No. : 7681-11-0</td>
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<tr>
<td>EC No. : 231-659-4</td>
<td>H302; H315; 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 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.

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

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
Carbon oxides, Oxides of phosphorus, Potassium oxides, Magnesium oxides, Sulphur oxides

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. 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 adsorbent material and dispose of as hazardous waste. 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 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
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 of 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 2016/425/EEC and the standard EN ISO 374-1/2016 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
- Part A: Cream to light yellow homogeneous coarse powder.
- Part B: White to light yellow homogeneous free flowing powder.

Odour
No data available

Odour Threshold
No data available

pH
Not Applicable

Melting/freezing point
No data available

Initial boiling point and boiling range
No data available

Flash point
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

Viscosity
No data available

Explosive properties
No data available

Oxidizing properties
No data available

Vapour density
No data available

Thermal decomposition
No data available

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

**Additional Information**
RTECS : No data available

### 11.2 Components

**Calcium chloride**

**Acute oral toxicity**
Rat LD50 : 1,000 mg/kg
(As per IUCLID)

**Acute dermal toxicity**
Rat LD50 : 2,630 mg/kg
(As per IUCLID)

**Skin irritation**
Rabbit
Result : No irritation
(As per OECD Test Guideline 404)

**Eye irritation**
Rabbit
Result: Eye irritation
(As per OECD Test Guideline 405)
Causes serious eye irritation.

**Additional Information**
RTECS: EV9800000
**Niacin (Nicotinic acid)**

*Acute oral toxicity*
Rat LD50: >5000 mg/kg; 24h (ECHA)

*Acute dermal toxicity*
Rat LD50: >2000 mg/kg; 24h (ECHA)

*Acute inhalation toxicity*
Rat LD50: >3.8 mg/L; 4h (ECHA)

*Skin irritation*
Rabbit: Does not cause irritation to skin (ECHA)

*Eye irritation*
Rabbit: May cause slight to mild irritation to eyes (ECHA)

*Sensitisation*
Nonsensitizer (ECHA)

*Repeated Exposures*
No significant effect seen on rats (ECHA)

*Germ cell mutagenicity*
Genotoxicity in vitro
Chinese hamster Ovary (CHO)
Result: Negative (ECHA)

*Genotoxicity in vivo*
Mammalian Bone Marrow Chromosome Aberration Test
Result: Negative (ECHA)

*Mutagenicity (mammal cell test): micronucleus*
No data available

*Carcinogenicity*
No data available

*Reproductive toxicity*
No data available

*Teratogenicity*
Rats, 20 d
Result: Negative (ECHA)

**Additional information**
RTECS QT0525000

**Boric Acid**

*Acute Toxicity*
Rat oral LD50: 2660 mg/kg
Rabbit dermal LD50: 2000 mg/kg
Mouse Oral: LD50 = 3450 mg/kg.

**Additional information**
RTECS: ED4550000
Specific concentration limits (SCL): >5.5%
Boric acid is included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH).

Zinc Sulphate, Heptahydrate

Acute Oral Toxicity
Rat LD50: 1,260 mg/kg (As Per RTECS)

Additional information
RTECS: ZH5300000

**PABA (Para aminobenzoic acid)(4-aminobenzoic acid)**

*Acute oral toxicity*
- Rat LD50: 6gm/kg (RTECS)
- Mouse LD50: 2850mg/kg
- Rabbit LD50: 1830 mg/kg
- Dog LD50: 1000 mg/kg

*Acute inhalation toxicity*
No data available

*Acute dermal toxicity*
No data available

*Skin irritation*
No data available

*Eye irritation*
No data available

*Sensitisation*
STOT: May cause respiratory irritation

*Genetic toxicity (in-vitro)*
- Ames Test
  - Negative (National Toxicological Program)
- Germ cell mutagenicity
  - Mouse
  - Causes DNA damage

*Carcinogenicity*
- IARC Group 3 (It is not established as carcinogen to humans)

*Toxicity to Reproduction*
No data available

*Teratogenicity*
No data available

Additional information:
RTECS: No data available

**Ferric chloride**

Acute oral toxicity
- Rat LD50: 3,200mg/kg (As per OECD Guideline 401)

Acute inhalation toxicity
No data available

Acute dermal toxicity
- Rabbit LD50: > 559mg/kg (As per EPA OPP 81-2)
Skin irritation
Rabbit Result: Non Irritant (As per OECD Guideline 404)
Eye irritation
Rabbit Result: Irreversible effects on the eye (ECHA)
Sensitisation
Guinea pig Result: Not sensitising
Genetic toxicity (in-vitro)
Mammalian cell gene mutation assay
Mouse lymphoma cells Result: Negative
Genetic toxicity (in-vivo)
Mouse Result: Positive (ECHA)
Carcinogenicity
No data available
Toxicity to Reproduction
No data available
Teratogenicity
No data available

**Additional information:**
RTECS: LJ9100000

**Potassium iodide**

*Acute oral toxicity*
Rat LD50: 3118mg/kg; (As Per OECD Test Guideline 401)

*Acute intravenous toxicity*
Rat LD50: 285mg/kg

*Skin irritation*
No data available

*Eye irritation*
No data available

*Sensitisation*
No data available

*Genetic toxicity (in-vitro)*
Mammalian cell micronucleus test
Result: Negative

*Genetic toxicity (in-vivo)*
Rat Chromosome aberration assay
Result: Negative

*Carcinogenicity*
Rat
Not carcinogenic (As per OECD guideline 453)

*Teratogenicity*
Rat
No developmental toxicity/teratogenicity (ECHA)

**Additional information:**
RTECS: TT2975000
12 Ecological Information

12.1 Toxicity

No data available

Components

Calcium chloride

Toxicity to fish
Lepomis macrochirus (Bluegill sunfish) LC50 : 10,650 mg/l; 96 h
(As per IUCLID)

Toxicity to daphnia and other aquatic invertebrates
Daphnia magna (Water flea) EC50 : 144 mg/l; 48 h
(As per IUCLID)

Toxicity to algae
AlgaeIC50 : 3,130 mg/l; 120 h
(As per IUCLID)

Components

Niacin (Nicotinic acid)

Toxicity to fish
Brown trout (Salmo Trutta Fario) LC50: 520 mg/l; 96 h(ECHA)

Toxicity to daphnia and other aquatic invertebrates
Daphnia magna EC50: 77 mg /L; 48 h(ECHA)

Toxicity to algae
Desmodesmus subspicatus Scenedesmus subspicatus)
EC50: 89.93 mg/L 72 h(ECHA)

Toxicity to microorganisms
Pseudomonas putida EC50: 120 mg /L; 16 h(ECHA)
Pseudomonas putida EC10: 88 mg /L; 16 h(ECHA)

Component

Boric Acid

Toxicity to fish
Gambusia affinis LC50 :5600 mg/l
Rainbow trout LC50:150mg B/L;24d
Goldfish LC50:46mg; 7d

Toxicity to daphnia and other aquatic invertebrates
Daphnia EC50 :115 mg/l

Components

Zinc Sulphate, Heptahydrate

Toxicity to fish
Oncorhynchus mykiss (rainbow trout)LC50: 0.1 mg/l; 96 h
(As Per ECOTOX Database)
Toxicity to algae
Scenedesmus quadricauda (green algae) IC50: 0.52 mg/l; 5 d
(As Per IUCLID)

**Components**

**PABA (Para aminobenzoic acid) (4-aminobenzoic acid)**

*Toxicity to daphnia and other aquatic invertebrates*
Daphnia magna (Water flea) EC50 : 546 mg/l; 24 h.

*Toxicity to Bacteria*

*Microtox test*

Phytobacterium phosphoreum EC50: 27.4 mg/l; 30 mins.

**Components:**

**Ferric chloride**

*Toxicity to microorganisms*
Activated sludge IC50: ca. 170 mg/L (ECHA)

**Components:**

**Potassium iodide**

*Toxicity to fish*

Oncorhynchus mykiss (Rainbow trout) Static test: LC50: 3780 mg/L; 96h (As per OECD Guideline 203)

*Toxicity to aquatic invertebrates*

Daphnia magna (Water flea) Static test: EC50: 10.6 mg/L; 24h (As per OECD Guideline 202)

*Toxicity to aquatic algae and cyanobacteria*

Scenedesmus quadricauda (green algae) Static test: Toxicity threshold: 2370 mg/L; 7d

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 Disposal Considerations

13.1 Waste treatments methods

*Product*

Offer surplus and non-recyclable solutions to a licenced 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
   H290  May be corrosive to metals
   H302  Harmful if swallowed
   H315  Causes skin irritation
   H317  May cause an allergic skin reaction
   H318  Causes serious eye damage
   H319  Causes serious eye irritation
   H360  May damage fertility or the unborn child
   H410  Very toxic to aquatic life with long lasting effects
   Acute Tox.oral 4  Acute toxicity, oral, Category 4
   Aquatic Chronic 1 Hazardous to the aquatic environment, long term hazard, Category 1
   Eye Dam. 1  Serious eye damage or eye irritation, Category 1
   Eye Irrit. 2A  Serious eye damage or eye irritation, Category 2A
   Met. Corr. 1  Corrosive to metals, Category 1
   Repr. Tox. 1A, 1B Reproductive toxicity, Category 1A, 1B
   Skin Irrit. 2  Skin corrosion or irritation, Category 2
   Skin Sens. 1  Sensitisation, Skin, Category 1
Further Information

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