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

1.1 Product Identifiers

<table>
<thead>
<tr>
<th>Product Number</th>
<th>M348</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Name</td>
<td>Brucella Broth Base</td>
</tr>
<tr>
<td>REACH Registration Number</td>
<td>This product is a mixture. Reach registration number is not available for this substance.</td>
</tr>
</tbody>
</table>

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.

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>
</thead>
</table>
| Sodium bisulphite      | As Per EC Regulation 1272/2008                      | >=0.1 - <=1%  
| CAS No. :              | Acute Tox.oral 4; Eye Dam. 1 H302; H318             |               |
| EC No. :               |                                                     |               |
| Index-No :             |                                                     |               |

Page 1 of 10
### 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

### Fire Fighting Measures

**5.1 Extinguishing media**

**Suitable extinguishing media**
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Refer Section 16 for complete statement of H codes and its classification.
Unsuitable extinguishing media
No data available.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas, Oxides of phosphorus, Potassium 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 10-30°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 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 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.

---

### Physical and chemical properties

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Cream to yellow coloured homogeneous free flowing powder</td>
</tr>
<tr>
<td>Odour</td>
<td>No data available</td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>6.60 - 7.00</td>
</tr>
<tr>
<td>Melting/freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (Solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>No data available</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data available</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour density</td>
<td>No data available</td>
</tr>
<tr>
<td>Thermal decomposition</td>
<td>No data available</td>
</tr>
</tbody>
</table>

#### 9.2 Other safety information

No data available

---

### Stability and Reactivity

#### 10.1 Reactivity
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. Other Decomposition products not known.

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 probabil, 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 Available
11.2 Components

Sodium bisulfite

Acute Oral Toxicity
Rat LD50: 1420 mg/kg

Acute Inhalation Toxicity
Rat LC50: 5.5 mg/L; 4h

Acute Dermal Toxicity
Rat LD50: > 2000 mg/kg

Additional Information
RTECS: VZ2000000

Ammonium nitrate

Acute oral toxicity
LD50 rat: 2,462 mg/kg
Symptoms: Nausea, Vomiting, Diarrhoea, Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.
(OECD Test Guideline 401)

Acute inhalation toxicity
LC50 rat: > 88.8 mg/l; 4 h (IUCLID)
Symptoms: Inhalation may lead to the formation of oedemas in the respiratory tract.
(OECD Test Guideline 401)

Additional Information:
RTECS: BR9050000

Further information:
After absorption of large quantities:
Symptoms: Methaemoglobinaemia with headache, cardiac arrhythmia, drop in blood pressure, dyspnoea, and spasms, key symptom: cyanosis (blue colouration of the blood). The following applies to ammonium salts in general: after swallowing: local irritation symptoms, nausea, vomiting and diarrhoea. Systemic effect: after the uptake of very large quantities: drop in blood pressure, collapse, CNS disorders, spasms, narcotic conditions, respiratory paralysis and haemolysis.

Ferric chloride

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

**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

---

12 Ecological Information
12.1 Toxicity
No data available

**Components**

*Sodium bisulfite*

*Toxicity to Fish*
Oncorhynchus mykiss LC50: 215 - 464 mg/L; 96h

*Toxicity to daphnia and other aquatic invertebrates*
Daphnia magna EC50: 119 mg/L; 48 h

**Components:**

**Ferric chloride**

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

**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*
Algae IC50 : 3,130 mg/l; 120 h  
(As per IUCLID)  

**Components:**  
**Ammonium Nitrate**  
*Toxicity to fish*
LC50 Cyprinus carpio (Carp): 74 mg/l; 48 h (IUCLID)  
*Toxicity to daphnia and other aquatic invertebrates*
EC50 Daphnia magna (Water flea): 555 mg/l(IUCLID)  
*Toxicity to algae*
IC50 Scenedesmus quadricauda (Green algae): 83 mg/l(IUCLID)  

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

H272  May intensify fire; oxidizer
H290  May be corrosive to metals
H302  Harmful if swallowed
H315  Causes skin irritation
H318  Causes serious eye damage
H319  Causes serious eye irritation
H335  May cause respiratory irritation
Acute Tox.oral 4  Acute toxicity, oral, Category 4
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
Ox. Sol. 3  Oxidising solids, Category 3
Skin Irrit. 2  Skin corrosion or irritation, Category 2
STOT SE 3  Specific target organ toxicity, single exposure, Respiratory tract irritation, Category 3

Further Information
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