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

1.1 Product Identifiers
Product Number: GM129
Product Name: Wort Agar, Granulated
REACH Registration Number: This product is a mixture. REACH registration number is not available for this substance.

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

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.: +91-22-2500 2468
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>
<tbody>
<tr>
<td>Ammonium chloride</td>
<td>As Per EC Regulation 1272/2008</td>
<td>&gt;=1.0 - &lt;=10.0%</td>
</tr>
<tr>
<td>CAS No.:</td>
<td>Acute Tox. oral 4; Eye Irrit. 2A; H302; H319</td>
<td></td>
</tr>
<tr>
<td>EC No.:</td>
<td>As Per EC Directive 67/548/EEC or</td>
<td></td>
</tr>
<tr>
<td>Index-No:</td>
<td>1999/45/EC</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, Hydrogen chloride gas
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.

9 Physical and chemical properties
9.1 Information on basic physical and chemical properties

Appearance
Light yellow to brownish yellow coloured granular medium

Odour
No data available

Odour Threshold
No data available

pH
4.60 - 5.00

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. 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 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 available

11.2 Components

Ammonium Chloride

Acute Oral toxicity
Rat LD50:1,650 mg/kg

Irritation and corrosion
Skin: rabbit: No skin irritation
Eyes: rabbit: Eye irritation

Sensitisation:
Non sensitizer

Signs and Symptoms of Exposure:
No data available

Potential Health Effects

Inhalation
May be harmful if inhaled. May cause respiratory tract irritation.

Additional Information
RTECS : BP4550000

12 Ecological Information
12.1 Toxicity
No data available for this mixture

**Components**

**Ammonium chloride**

*Toxicity to fish*

Oncorhynchus mykiss (rainbow trout) LC50: 42.91 mg/l; 96 h (AS per ECHA)

Cyprinus carpio (Carp) LC50: 209.00 mg/l; 96 h

Lepomis macrochirus (Bluegill sunfish) EC10: 4.28 mg/l; 30 d (As per ECHA)

*Toxicity to daphnia and other aquatic invertebrates*

Daphnia magna (Water flea) EC50: > 100 mg/l; 48 h (As per ECHA)

Daphnia magna (Water flea) LC50: 161 mg/l - 48 h

*Toxicity to algae*

Chlorella vulgaris (Fresh water algae) EC50: 1,300 mg/l; 5 d (As per ECHA)

*Toxicity to bacteria*

EC50 activated sludge: 1,310 mg/l; 0.5 h (OECD Test Guideline 209)

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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
- 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

H302 Harmful if swallowed
H319 Causes serious eye irritation
Acute Tox.oral 4 Acute toxicity, oral, Category 4
Eye Irrit. 2A Serious eye damage or eye irritation, Category 2A
R22 Harmful if swallowed.
R36 Irritating to eyes.
Xi Irritant
Xn Harmful

Further Information

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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
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