SAFETY DATA SHEET

1. Identification of the substance/mixture and of the company/undertaking

1.1 Identification of the substance/preparation

Product code AT-104
Product name Accutase®

Accutase is an internationally registered trademark of Innovative Cell Technologies, Inc.

1.2 Company/Undertaking Identification

Innovative Cell Technologies, Inc.
6790 Top Gun St., Suite 1
San Diego, CA 92121 USA
1 858 587 1716

1.3 Emergency Response: +1-858-587-1716

1.4 Identified usages: Laboratory Chemical. For research use only. Not intended for human or animal diagnostic or therapeutic uses.

2. Hazards Identification

2.1 GHS – Classification:

Not a hazardous substance or mixture.

2.2 Signal Word

None

2.3 Health Hazard

Not classified

2.4 Physical Hazards

Not classified

2.5 Principal Routes of Exposure/Potential Health Effects

<table>
<thead>
<tr>
<th>Route</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eyes</td>
<td>May cause eye irritation with susceptible persons</td>
</tr>
<tr>
<td>Skin</td>
<td>May cause skin irritation with susceptible persons</td>
</tr>
<tr>
<td>Inhalation</td>
<td>May be harmful by inhalation</td>
</tr>
<tr>
<td>Ingestion</td>
<td>May be harmful if swallowed</td>
</tr>
</tbody>
</table>

2.6 Specific Effects

- Carcinogenic Effects: none
- Mutagenic Effects: none
- Reproductive Effects: none
- Sensitization: none

2.7 Target Organ Effects

No known effects under normal use conditions
2.8 HMIS Rating

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>0</td>
</tr>
<tr>
<td>Flammability</td>
<td>0</td>
</tr>
<tr>
<td>Reactivity</td>
<td>0</td>
</tr>
</tbody>
</table>

2.9 NFPA rating

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Health Hazard</td>
<td>0</td>
</tr>
<tr>
<td>Fire Hazard</td>
<td>0</td>
</tr>
<tr>
<td>Reactivity Hazard</td>
<td>0</td>
</tr>
</tbody>
</table>

3. Composition/Information on ingredients

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

4. First Aid measures

4.1 Skin contact: Rinse with plenty of water. If symptoms arise, call a physician.
4.2 Eye contact: Rinse immediately with plenty of water, also under eyelids, for at least 15 minutes. If symptoms persist, call a physician.
4.3 Ingestion: Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do not induce vomiting without medical advice.
4.4 Inhalation: Move to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.
4.5 Notes to physician: Treat symptomatically.
4.6 Most Important symptoms and effects, both acute and delayed: Not applicable

5. Fire-Fighting measures

5.1 Suitable extinguishing media: Water spray. Carbon dioxide (CO₂). Foam. Dry chemical.
5.2 Special protective equipment for firefighters: Wear self-contained breathing apparatus and protective suit.
5.3 Specific hazards arising from chemicals: Not Known
5.4 Further Information: No data available

6. Accidental release measures

6.1 Personal Precautions, protective equipment, and emergency procedures
Use personal protective equipment. Avoid breathing and inhaling of the material.

6.2 Methods for cleaning up
Soak up with inert absorbent material.

6.3 Environmental precautions
No special environmental precaution required. Prevent further leakage or spillage if safe to do so.

See section 12 for additional information.
7. Handling and storage

7.1 Handling  
Always wear recommended Personal Protective Equipment. No special handling advice required.

7.2 Storage  
Store in tightly closed containers and in well ventilated areas. Keep at -20°C until defrosted, then 4-6°C refrigerator.

7.3 Specific end usage  
Apart from usage mentioned in section 1.4, no other specific usage is recommended.

8. Exposure controls/personal protection

8.1 Exposure limit:  
We are not aware of any national exposure limit.

8.2 Engineering measures  
Ensure adequate ventilation, especially in confined areas

8.3 Personal protective equipment

Personal Protective Equipment requirements are dependent on the user institution’s risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

- **Respiratory protection**  
  None required.
- **Hand protection**  
  Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands after use.
- **Eye protection**  
  Wear safety glasses with side shields.
- **Skin and body protection**  
  Use light weight protective clothing.
- **Hygiene measures**  
  Handle in accordance with good industrial hygiene and safety practice.

8.4 Environmental exposure controls  
None required.

9. Physical and chemical properties

9.1 General Information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear Red defrosted/ Yellow when frozen</td>
</tr>
<tr>
<td>Odor</td>
<td>No odor</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>6.8 – 7.8</td>
</tr>
<tr>
<td>Boiling point/Range</td>
<td>100°C</td>
</tr>
<tr>
<td>Melting point/Range</td>
<td>0°C</td>
</tr>
<tr>
<td>Flash point</td>
<td>°C no data available</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>°C no data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No information available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive limit</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour density</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Water solubility</td>
<td>Soluble in water</td>
</tr>
</tbody>
</table>
Partition Coefficient  No data available
Decomposition temp  No data available
Viscosity  No data available
Explosive properties  No data available

9.2 Other Safety Information
No data available

10. Stability and Reactivity

Stability  Stable when stored in freezer at -20°C or in refrigerator at 2 to 8 °C.
Reactivity  No data available
Materials to avoid  No dangerous reactions known under conditions normal of use.
Possibility of Hazardous decomposition  None under normal use.
Conditions to avoid  No data available
Incompatible material  No data available
Polymerization  Hazardous polymerization does not occur

11. Toxicological information

11.1 Acute toxicity
No toxicology information is available.

11.2 Principle Routes of Exposure/ Potential Health effects

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Carcinogenic effects  No data available
Mutagenic effects  No data available
Reproductive toxicity  No data available
Sensitization  No data available
Target Organ Effects  No known effects under normal use conditions.

12. Ecological information

Ecotoxicity effects  Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.
Mobility  No information available.
Biodegradation  No information available
Bioaccumulation  No information available
13. Disposal considerations

Dispose of contents and containers in accordance with local regulations.

14. Transport information

IATA

<table>
<thead>
<tr>
<th>Proper shipping name</th>
<th>Not classified as dangerous in the meaning of transportation regulations</th>
</tr>
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<tbody>
<tr>
<td>Hazard class</td>
<td>None</td>
</tr>
<tr>
<td>Subsidiary class</td>
<td>None</td>
</tr>
<tr>
<td>Packing group</td>
<td>None</td>
</tr>
<tr>
<td>UN-No</td>
<td>None</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>None</td>
</tr>
</tbody>
</table>

Environmental hazards

None

15. Regulatory information

U.S. Federal Regulations

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

SARA 313 Components
This product is not regulated by SARA. No chemical component of this material with known CAS numbers that exceeds the threshold reporting levels established by SARA Title III, section 313

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
This product does not contain HAPs.

U.S. State Regulations

California Proposition 65
This product does not contain chemicals listed under proposition 65

WHMIS Hazard Class
Non-controlled

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.
16. Other information

**Reason for Revision**  
SDS sections updated.

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

The above information was acquired by diligent search and/or investigation and the recommendations are based on the prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS (M)SDS DOES NOT CONSTITUTE A WARRENTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OR MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.

**End of Safety Data Sheet**