

# MSDS

## (MATERIAL SAFETY DATA SHEET)

*The information is provided as a service to our customers and is intended only for their use.*

*This information is based on technical information believed to be reliable and will be revised as new knowledge or experience is gained.*

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### 1. Identification

#### A. Product Name

- CELLiST™ AminoSupplement Cys2

#### B. Recommended use and restriction on use

- General Use : Cell culture medium  
- Restriction on use : Don't use this for other use

#### C. Manufacturer / Supplier / Distributor information

- Company Name : Ajinomoto CELLiST Korea Co., Inc.  
- Address : 105, Jisikgiban-ro, Songdo-dong, Yeonsu-gu, Incheon 21991, KOREA  
- Dept. : Production Division / Technical Group  
- Telephone number : +82-32-210-2600  
- Emergency number : +82-32-210-2600  
- FAX number : 032-210-2604  
- E-mail address : sales@ajinomotocellist.com

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### 2. Hazard Identification

#### A. Classification of the substance or mixture

○ GHS US Classification  
Not classified

#### B. GHS label elements, including precautionary statements

○ GHS US labelling  
No labelling applicable

#### C. Other hazards which do not result in classification

No additional information available

#### D. Unknown acute toxicity (GHS US)

No additional information available

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**3. Composition / Information on ingredients****A. Substances**

Not applicable

**B. Mixtures**

| Name       | Product identifier | %         |
|------------|--------------------|-----------|
| L-Cysteine | 52-90-4            | 17 ~ 22 % |

**4. First-aid measures****A. Description of first aid measures**

First-aid measures general : If you feel unwell, seek medical advice.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

**B. Most important symptoms and effects (acute and delayed)**

Symptoms/effects after inhalation : Dust of the product, if present, may cause respiratory irritation after excessive inhalation exposure.  
Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.

Symptoms/effects after skin contact : None under normal conditions. Dust may cause irritation in skin folds or by contact in combination with tight clothing.

Symptoms/effects after eye contact : None under normal conditions.  
Dust from this product may cause eye irritation.

Symptoms/effects after ingestion : None under normal conditions.

**C. Immediate medical attention and special treatment, if necessary**

Treat symptomatically.

**5. Fire-fighting measures****A. Suitable (and unsuitable) extinguishing media**

Suitable extinguishing media : Water spray. Dry powder. Foam.

Unsuitable extinguishing media : Do not use a heavy water stream.

**B. Specific hazards arising from the chemical**

Fire hazard : No fire hazard.

Explosion hazard : No direct explosion hazard.

Hazardous decomposition products in case of fire : Toxic fumes may be released.

**C. Special protective equipment and precautions for firefighters**

Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.

Protection during firefighting : Do not attempt to take action without suitable protective equipment.

Self-contained breathing apparatus. Complete protective clothing.

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## 6. Accidental release measures

### A. Personal precautions, protective equipment and emergency procedures

- |                               |  |
|-------------------------------|--|
| General measures              | : Notify authorities if product enters sewers or public waters.<br>Absorb spillage to prevent material damage.   |
| ○ For non-emergency personnel |  |
| Protective equipment          | : Wear recommended personal protective equipment.  |
| Emergency procedures          | : Ventilate spillage area.   |
| ○ For emergency responders    |  |
| Protective equipment          | : Do not attempt to take action without suitable protective equipment.<br>For further information refer to section 8: "Exposure controls/personal protection". |
| Emergency procedures          | : Evacuate unnecessary personnel.  |

### B. Environmental precautions

Avoid release to the environment.

### C. Methods and material for containment and cleaning up

- |                         |   |
|-------------------------|---|
| For containment         | : Using a clean shovel, put the material in a dry container and cover without compressing it. |
| Methods for cleaning up | : Mechanically recover the product.   |
| Other information       | : Dispose of materials or solid residues at an authorized site.                               |

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## 7. Handling and storage

### A. Precautions for safe handling

- |                                   |  |
|-----------------------------------|--|
| Additional hazards when processed | : Not expected to present a significant hazard under anticipated conditions of normal use.             |
| Precautions for safe handling     | : Ensure good ventilation of the work station.<br>Wear personal protective equipment.                  |
| Hygiene measures                  | : Do not eat, drink or smoke when using this product.<br>Always wash hands after handling the product. |

### B. Conditions for safe storage, including any incompatibilities

- |                     |   |
|---------------------|---|
| Technical measures  | : Keep in a cool, well-ventilated place away from heat.                     |
| Storage conditions  | : Keep cool. Protect from sunlight.   |
| Packaging materials | : Store always product in container of same material as original container. |

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## 8. Exposure controls / personal protection

### A. Exposure limits

- |           |                  |
|-----------|------------------|
| ACGIH TLV | : Not applicable |
| OSHA PEL  | : Not applicable |

**B. Appropriate engineering controls**

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

**C. Individual protection measures / personal protective equipment****Personal protective equipment :**

Wear recommended personal protective equipment.

○ **Respiratory protection**

- In case of insufficient ventilation, wear suitable respiratory equipment

○ **Eye protection**

- Safety glasses

○ **Hand protection**

- Protective gloves

○ **Skin protection**

- Wear suitable protective clothing

**9. Physical and chemical properties**

|           |  |                |
|-----------|--|----------------|
| <b>A.</b> | Appearance                                   |                |
|           | - Appearance                                 | Solid (Powder) |
|           | - Color                                      | Not available  |
| <b>B.</b> | Odor   | Not available  |
| <b>C.</b> | Odor threshold                               | Not available  |
| <b>D.</b> | pH   | Not available  |
| <b>E.</b> | Melting point/Freezing point                 | Not available  |
| <b>F.</b> | Initial Boiling Point/Boiling Ranges         | Not available  |
| <b>G.</b> | Flash point                                  | Not available  |
| <b>H.</b> | Evaporation rate                             | Not applicable |
| <b>I.</b> | Flammability (solid, gas)                    | Not available  |
| <b>J.</b> | Upper/Lower Flammability or explosive limits | Not available  |
| <b>K.</b> | Vapour pressure                              | Not applicable |
| <b>L.</b> | Solubility                                   | Not available  |
| <b>M.</b> | Vapour density                               | Not applicable |
| <b>N.</b> | Specific gravity (Relative density)          | Not available  |
| <b>O.</b> | Partition coefficient of n-octanol/water     | Not available  |
| <b>P.</b> | Autoignition temperature                     | Not available  |
| <b>Q.</b> | Decomposition temperature                    | Not available  |
| <b>R.</b> | Viscosity                                    | Not available  |
| <b>S.</b> | Molecular weight                             | Not available  |

**10. Stability and reactivity****A. Reactivity**

The product is non-reactive under normal conditions of use, storage and transport.

**B. Chemical stability**

Stable under normal conditions

**C. Possibility of hazardous reactions**

No dangerous reactions known under normal conditions of use.

**D. Conditions to avoid**

None under recommended storage and handling conditions.

**E. Incompatible materials**

No additional information available.

**F. Hazardous decomposition products**

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**11. Toxicological information****A. Information on toxicological effects**

|                                     |  |
|-------------------------------------|--|
| Acute toxicity (oral)               | : Not classified   |
| Acute toxicity (dermal)             | : Not classified   |
| Acute toxicity (inhalation)         | : Not classified   |
| Skin corrosion/irritation           | : Not classified   |
| Serious eye damage/irritation       | : Not classified   |
| Respiratory or skin sensitisation   | : Not classified   |
| Germ cell mutagenicity              | : Not classified   |
| Carcinogenicity                     | : Not classified   |
| (IARC, OSHA, ACGIH, NTP, EU CLP)    |  |
| Reproductive toxicity               | : Not classified   |
| STOT-single exposure                | : Not classified   |
| STOT-repeated exposure              | : Not classified   |
| Aspiration hazard                   | : Not classified   |
| Viscosity, kinematic                | : Not applicable   |
| Symptoms/effects after inhalation   | : Dust of the product, if present, may cause respiratory irritation after excessive inhalation exposure. Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard. |
| Symptoms/effects after skin contact | : None under normal conditions. Dust may cause irritation in skin folds or by contact in combination with tight clothing.  |
| Symptoms/effects after eye contact  | : None under normal conditions.<br>Dust from this product may cause eye irritation.  |
| Symptoms/effects after ingestion    | : None under normal conditions.  |

**12. Ecological information****A. Toxicity**

|                   |   |
|-------------------|---|
| Ecology - general | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
|-------------------|---|

**B. Persistence and degradability**

Not rapidly degradable

**C. Bioaccumulative potential**

No additional information available

**D. Mobility in soil**

No additional information available

**E. Other adverse effects**

No additional information available

**13. Disposal considerations****A. Disposal methods**

- Regional waste regulation : Disposal must be done according to official regulations.
- Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
- Sewage disposal recommendations : Disposal must be done according to official regulations.
- Product/Packaging disposal recommendations : Comply with applicable regulations for solid waste disposal.  
Disposal must be done according to official regulations.
- Additional information : Do not re-use empty containers.

**14. Transport information**

In accordance with DOT/IMDG/IATA

**A. UN No.**

Not applicable

**B. UN proper shipping name**

Not applicable

**C. Transport hazard class**

Not applicable

**D. Packing group**

Not applicable

**E. Environmental hazards**

No supplementary information available.

**F. Special precautions for user**

Not applicable

**G. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

**15. Regulatory information****A. US Federal regulations**

- Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA) :

| Name       | Cas No. | Listing | Commercial status |
|------------|---------|---------|-------------------|
| L-Cysteine | 52-90-4 | Present | Active            |

- OSHA Process safety (29 CFR 1910.119) : Not applicable

**US State regulations**

No additional information available

**B. International regulations****CANADA**

| Name       | Cas No. | Information   |
|------------|---------|---|
| L-Cysteine | 52-90-4 | Listed on the Canadian DSL (Domestic Substances List) |

**EU-Regulations** : No additional information available

**National regulations** : No additional information available

**16. Other information****A. Reference**

- This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

- This Safety Data Sheet was compiled with data and information from the following sources:  
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations.

**B. Issue date**

- 2022-01-26

**C. Revision number and last date revised**

- V6, 2026-01-30