

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.

Version : 06

Date of issue : 2022-01-26

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1. Identification

A. Product Name

- CELLiST™ AminoSupplement Cys1

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

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

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

Not applicable

B. Mixtures

Name	Product identifier	%
L-Cysteine	52-90-4	8 ~ 13 %

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.

6. Accidental release measures

A. Personal precautions, protective equipment and emergency procedures

- | | |
|-------------------------------|--|
| General measures | : Notify authorities if product enters sewers or public waters.
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.
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. |

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.
Wear personal protective equipment. |
| Hygiene measures | : Do not eat, drink or smoke when using this product.
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. |

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

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