

# MATERIAL SAFETY DATA SHEET

## Instant Essential Amino Acid(EAA)-L

### 1. CHEMICAL PRODUCT IDENTIFICATION

Product name Instant Essential Amino Acid(EAA)-L  
 Chemical family Amino acid  
 Manufacturer Smartherb Inc  
 Tel: +86-21-31358882  
 Fax: +86-21-31358998

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

| CAS#     | Chemical Name   | Percent | EINECS/ELINCS |
|----------|-----------------|---------|---------------|
| 73-32-5  | L-Isoleucine    | 10 %    | N/A           |
| 72-18-4  | L-Valine        | 10 %    | N/A           |
| 61-90-5  | L-Leucine       | 35 %    | N/A           |
| 657-27-2 | L-Lysine Hcl    | 15%     | N/A           |
| 63-68-3  | L-Methionine    | 4%      | N/A           |
| 72-19-5  | L-Threonine     | 10%     | N/A           |
| 63-91-2  | L-Phenylalanine | 7%      | N/A           |
| 73-22-3  | L-Tryptophan    | 7%      | N/A           |

**Hazard Symbols:** None listed.

**Risk Phrases:** None listed.

### 3. HAZARD IDENTIFICATION

Environmental hazards No know negative effects.

Human health hazards Not to be expected if handled and used properly

### 4. FIRST AID MEASURES

Inhalation Remove to fresh air. Seek medical attention if discomfort persists.

Skin contact Wash with soap and water.

Eye contact Rinse eyes with copious amount of water.

Ingestion Seek medical attention if large amount of this material is ingested

### 5. FIRE FIGHTING MEASURES

Flash point N/A

Extinguishing media Dry fire extinguisher/Carbon dioxide/AFFF (A Film Forming Foam).

Unsuitable None.

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|                                          |                                                                                                                                                              |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Unusual fire/explosion hazards           | None.                                                                                                                                                        |
| Hazardous thermal decomposition products | N/A                                                                                                                                                          |
| Fire/Explosion Hazards                   | As with any fine particulate matter, accumulation of excessive dust on overhead structures may produce explosive concentrations when disturbed and dispersed |
| Protection of fire fighters              | Wear self-contained breathing apparatus and full protective gear.                                                                                            |

### 6. ACCIDENTAL RELEASE MEASURES

|                           |                                                                                                                                                                                           |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions:     | The usual precautions for handling vegetable oil should be observed                                                                                                                       |
| Environmental precautions | Dispose of waste according to local regulations.                                                                                                                                          |
| Methods of cleaning up    | Remove large spills for disposal. Cover and clean small spills with absorbent material (e.g. universal binding material /sand/siliceous earth). Wash contaminated areas with soapy water. |

### 7. HANDLING AND STORAGE

|                                  |                                                                                                           |
|----------------------------------|-----------------------------------------------------------------------------------------------------------|
| Handling                         | Keep away from heat, sparks and flame. Avoid contact with eyes, and skin. Wear gloves and safety glasses. |
| Storage                          | Keep in a cool, ventilated place. Avoid light and heat                                                    |
| Suitable packaging materials     | Polyethylene/glass/fiber/paper/food grade steel container                                                 |
| Not suitable packaging materials | N/A                                                                                                       |

### 8. EXPOSURE CONTROL/PERSONAL PROTECTION

|                               |                                                                                                                      |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Respiratory system protection | When airborne dust concentrations are high, wear respirators that are approved for protection against airborne dust. |
| Skin and body protection      | Not necessary under normal conditions                                                                                |
| Hand protection               | Wear rubber gloves                                                                                                   |
| Eye protection:               | Wear safety glasses.                                                                                                 |

### 9. PHYSICAL AND CHEMICAL PROPERTIES

|                |                                |
|----------------|--------------------------------|
| Physical state | Fine Powder                    |
| Color          | White to off-white fine powder |
| Odor           | Faint characteristic           |
| Melting point: | >200°C                         |

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Solubility in water                      Soluble

N/A

Vapor density (air=1)

Flash point:                              N/A

### 10. STABILITY AND REACTIVITY

Stable under normal conditions

Materials to avoid                      Strong oxidizing agents

Hazardous decomposition  
products                                  N/A

Hazardous polymerization              Will not occur

### 11. TOXICOLOGICAL INFORMATION

None toxic

### 12. ECOLOGICAL INFORMATION

Comment                                  Biodegradable.

### 13. DISPOSAL CONSIDERATIONS

Methods of disposal: According to local regulation (suitable for incineration).

### 14. TRANSPORT INFORMATION

Land/Sea/Air transport: Not restricted.

### 15. REGULATORY INFORMATION

EC regulations:                              N/A

EC classification                              N/A

Label name:                                  None

Hazard symbols:                              None

Risk phrases:                                  None

Safely phrases:                                  None

### 16. OTHER INFORMATION

The statements made here are supposed to describe the product with regard to necessary safety precautions. They do not guarantee special characteristics and are made to the best of our current knowledge.

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