

MATERIAL SAFETY DATA SHEET

Instant Essential Amino Acid(EAA)-M

1. CHEMICAL PRODUCT IDENTIFICATION

Product name Instant Essential Amino Acid(EAA)-M
 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	5 %	N/A
72-18-4	L-Valine	5 %	N/A
61-90-5	L-Leucine	8 %	N/A
657-27-2	L-Lysine Hcl	6%	N/A
63-68-3	L-Methionine	1%	N/A
72-19-5	L-Threonine	3.5%	N/A
63-91-2	L-Phenylalanine	5%	N/A
73-22-3	L-Tryptophan	1%	N/A
56-41-7	L-Alanine	4%	N/A
74-79-3	L-Arginine	7%	N/A
56-84-8	L-Aspartic Acid	11%	N/A
56-89-3	L-Cystine	1%	N/A
56-86-0	L-Glutamic Acid	19%	N/A
71-00-1	L-Histidine	2.5%	N/A
147-85-3	L-Proline	5%	N/A
302-84-1	L-Serine	3%	N/A
60-18-4	L-Tyrosine	3.5%	N/A
52-90-4	L-Cystine	4%	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

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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.
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
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	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
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

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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.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.

MSDS Creation Date: 13/07/2016

Revision #2 Date: 20/07/2022

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