

FEED SAFETY DATA SHEET
VEDAFEED FEED ADDITIVE PELLET
 (BASED ON GMP + S9.10)

SDS No. SDS 035-3

FEED SAFETY DATA SHEET		0.1. Product	Vedafeed feed additive pellet
		0.2. Status	Modify
		0.3. Version number	3
		0.4. Version date	23/08/2024
0. Name of purchasing company (GMP+)			
1.1	Responsibility for the feed safety sheet		<u>VEDAN VIETNAM ENTERPRISE CORP., LTD</u>
1.2	Contact	Address	National Road 51, Hamlet 1A, Phuoc Thai Village, Long Thanh District, Dong Nai Province, Vietnam
		Telephone	(+84)0251-3825111
		Fax	(+84)0251-3825138
		E-mail	vedanservices@vedaninternational.com
		Website	<u>www.vedan.com.vn</u>
1.3	Approved by	QA and Central Laboratory Manager	
2. Identification of the product			
2.1	Product name	Vedafeed feed additive pellet	
2.2	Trade name	Condensed Molasses Fermentation Solubles Pellets	
2.3	Article code of the company	N/A	
2.4	Permit number (if applicable)	C810239GMP-02.2020	
2.5	Product description	Vedafeed feed additive pellet is a pellet product manufactured by Glutamic Acid post-fermentation technology from molasses and glucose.	
2.6	Origin	Manufacturer :	

		<u>VEDAN VIETNAM ENTERPRISE CORP., LTD</u> Address : National Road 51, Hamlet 1A, Phuoc Thai Village, Long Thanh District, Dong Nai Province, Vietnam Country origin: Vietnam
2.7	Supplier	<u>VEDAN VIETNAM ENTERPRISE CORP., LTD</u> Address : National Road 51, Hamlet 1A, Phuoc Thai Village, Long Thanh District, Dong Nai Province, Vietnam

3. Product description

3.1	Production process	<pre> graph TD A[Broth fermentation] --> B[Concentration] B --> C[pH adjustment] C --> D[Crystallization] D --> E[Separation] E --> F[Fermented broth] F --> G[Concentration] G --> H[GA-CMS] H --> I[Filtration mesh10mm] I --> J[Acidification] K[Acid H2SO4] --> J J --> L[Hydrolysis] M[Steam] --> L L --> N[Neutralization] O[NH3] --> N N --> P[Filtration mesh 6mm] P --> Q[Drying to pellet] R[Small pellet] --> Q S[Hot air] --> Q Q --> T[Sieve to classify the first time 3.36~4.76mm] T --> U[Crude pellet] U --> V[Cooling] U --> R U --> S V --> W[Sieve to classify the second time 2~4mm] W --> X[Magnet OPRP(P)] X --> Y[Packaging] Z[Package material] --> Y Y --> AA[Storage] AA --> AB[Delivery] </pre> <p>The flowchart illustrates the production process for GA-CMS pellets. It begins with 'Broth fermentation', followed by 'Concentration', 'pH adjustment', and 'Crystallization'. The process then moves to 'Separation', yielding 'Fermented broth', which is further 'Concentrated' to produce 'GA-CMS'. This is followed by 'Filtration (mesh10mm)', 'Acidification' (using 'Acid H₂SO₄'), 'Hydrolysis' (using 'Steam'), and 'Neutralization' (using 'NH₃'). The next steps are 'Filtration (mesh 6mm)' and 'Drying to pellet', which also receives input from 'Small pellet' and 'Hot air'. The 'Drying to pellet' step leads to 'Sieve to classify the first time (3.36~4.76mm)', which produces 'Crude pellet'. The 'Crude pellet' is then 'Cooled' and 'Sieved to classify the second time (2~4mm)'. This is followed by 'Magnet OPRP(P)', 'Packaging' (using 'Package material'), 'Storage', and finally 'Delivery'.</p>
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3.2	Raw materials and auxiliary substances used (including feed additives and processing aids)	Material: GA-CMS (Condensed Molasses Fermentation Solubles), NH ₃ , H ₂ SO ₄		
3.3	Logistical process (transport, (interim) storage, packaging)	Stored in sealed tank, at ambient temperature with adequate ventilation, transport by ship From Vedan → Hochiminh City → Tung Hai		
3.4	Storage life	18 months from manufacturing date		
3.5	Indicative analysis	Parameter	Unit	Limit
		Form	-	Grain
		Colour	-	Black brown
		Moisture	%	Max 7
		Crude Protein (Nx6.25)	%	Min 60
		Granule size 1.0mm~2.38mm, 2mm~4mm	%	Min 85
		Crude ash	%	Max 30
		Acid insolubel ash	%	Max 0.5
4. Standards / Requirements				
4.1	Relevant legislation and other requirements	Product complies with the requirements of GMP + B2 and other relevant current legislations.		
4.2	Relevant product standards / requirements (chemical, physical, microbiologic al)	Parameter	Unit	Limit
		As	mg/kg	Max 2
		Pb	mg/kg	Max 10
		Hg	mg/kg	Max 0.1
		Cd	mg/kg	Max 1

		Salmonella spp	/25g	Negative
		E. coli	CFU/g	< 10
		Enterobacteriaceae		Negative
		Antibacterial inhibition	µg/kg	Not detected
		Ethoxyquin	ppm	Max 150
		Aflatoxin B1	µg/kg	Max 30
		Radioactive material Cs-134	Bq/kg	Max 40
		Radioactive material Cs-137	Bq/kg	Max 40
		Dioxin	ng WHO-PCDD/F-TEQ / kg	Max 0.75
		Dioxin - like PCBs	ng WHO-PCDD/F-TEQ / kg	Max 0.35
		Non – dioxin – like PCBs	µg/kg	Max: 10
		Banned substance	-	Not detected
4.3	Intended use	Mix to make animal feed		
4.4	Processing of the product (indicate whether the (former) foodstuff needs further processing or has been processed into feed material)	Used for feed mixing, the using amount depends on the mixing formula of feed manufacturer.		
4.5	Processing step and instructions for processing	See section 3		
4.6	Storage and retention	Stored in dry place, and cover.		

	conditions				
4.7	Transport requirements	Transport product by truck, or customer’s request			
5. Labelling					
Labeling is compliance with legislation of the importing country.					
6. HACCP					
6.1. Hazard	6.2. Risk assessment				6.3. Control measure
	Cat (C, M, F)	Likely Occurrence	Severity	Risk	
Physical (Foreign material)	F	Low	Low	No	- Form of periodical cleaning for equipment, environment of auxiliary sub-product production plant - PN300040. - Specification of materials – PN300005. - HACCP plan of auxiliary sub- product production plant – PN300038.
Microorganism (Salmonella, E.coli, Enterobacteriac eae)	M	Low	High	No	- Specification of materials – PN300005. - HACCP plan of auxiliary sub- product production plant – PN300038.
Chemical (Pb, As, Cd, Hg, Aflatoxin B1, Antibacterial inhibition, Radioactive material Radioactivity Sum of Cs-134 and Cs-137)	C	Low	High	No	- Specification of materials – PN300005. - HACCP plan of auxiliary sub- product production plant – PN300038.
7. Monitoring					
7.1. Parameter		7.2. Sampling moment/ Point		7.3. Frequency	
Form		Finished product		Every batch	
Colour		Finished product		Every batch	
Moisture		Finished product		Once/ week	
Crude Protein (Nx6.25)		Finished product		Every batch	
Granule size		Finished product		Every batch	

1.0mm~2.38mm, 2mm~4mm		
Crude ash	Finished product	6 month / Once
Acid insolubel ash	Finished product	Once/ year
As	Finished product	Once/ year
Pb	Finished product	Once/ year
Hg	Finished product	Once/ year
Cd	Finished product	Once/ year
Salmonella spp	Finished product	Once/ year
E. coli	Finished product	Once/ year
Antibacterial inhibition	Finished product	Once/ year
Ethoxyquin	Finished product	Once/ year
Aflatoxin B1	Finished product	Once/ year
Radioactive material (Sum of Cs-134)	Finished product	Once/ year
Radioactive material (Sum of Cs-137)	Finished product	Once/ year
Dioxin	Finished product	Once/ year
Dioxin - like PCBs	Finished product	Once/ year
Non – dioxin – like PCBs	Finished product	Once/ year
Banned substance	Finished product	Once/ year
8. Communication in case of non-conformities		
In case the batch does not correspond with the FSDS or the suspicion exist that the health of animals or the food/feed safety is in danger than this must be actively reported to our company.		
9. Remarks		
10. Signatures		
..... DD / MM / YY GMP + certified company (Purchaser)		