

ZAR-MIN[®] Feed Additive



Description

Supplier Information

Name: ZEO, Inc.
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Product Description

Name: ZAR-MIN Feed Additive
Origin: Natural zeolite, a mineral from volcanic activity
Active ingredient: Natural zeolite: CAS No.: 1318-02-1
Clinoptilolite: 12173-10-3
Sodium aluminosilicate: 1344-00-9
Activity or use: Anti-caking agent
Form: Free flowing powder
Color: Light tan to grey
Odor: No sour or off odors

Typical Properties

Particle size: 99% thru #30 US mesh screen;
90% thru #70 mesh screen

		Range	Typical
<i>Elemental analysis:</i>	Silicon as silicon dioxide (SiO ₂)	64 – 70%	68.9
	Aluminum as alumina (Al ₂ O ₃)	10 – 12	11.1
	Potassium as potassium oxide (K ₂ O)	3 – 5	4.5
	Calcium as calcium dioxide (CaO)	1 – 3	1.6
	Magnesium as magnesium oxide (MgO)	0.1 – 0.5	0.4
	Sodium as sodium oxide (Na ₂ O)	0.5 – 2	0.8

Regulatory

<i>GRAS:</i>	The FDA Generally Regarded as Safe (GRAS) requirements for sodium aluminosilicate are met by ZAR-MIN. Sodium aluminosilicate is approved for use as an anti-caking agent at levels not to exceed 2%.
<i>Organic:</i>	ZAR-MIN is listed ORMI as an organic animal feed ingredient.
<i>Food Grade Status:</i>	ZAR-MIN is not food grade and is not produced in a food grade facility.
<i>Dietary:</i>	Vegan and vegetarian requirement are met since ZAR-MIN contains no animal products.
<i>Religious:</i>	While ZAR-MIN is not Kosher or Halal certified, ZAR-MIN contains no ingredients or production methods that are prohibited by Jewish or Islamic dietary law.

Storage

<i>Weather protection:</i>	Protect packaging from moisture, sun, and wind damage. ZAR-MIN is not damaged by exposure to moisture, sun, or wind.
<i>Temperatures:</i>	-40° F (-40° C) and 140° F (60° C).
<i>Shelf life:</i>	5 years based on packaging materials; ZAR-MIN shelf life is greater than 10 years.

Undesirable Substances

<i>Heavy Metals</i>	Lead (Pb)	<10 ppm
	Cadmium (Cd)	<5 ppm
	Arsenic (As)	<5 ppm
	Mercury (Hg)	<2 ppm
<i>Microbiological</i>	Listeria	Negative/25g
	Salmonella	Negative/25g
	E. Coli	<10 CFU/g (est)
	Aerobic plate count	19,000 CFU/g (est)
<i>GMO's</i>	ZAR-MIN does not contain any Genetically Modified Organisms (GMO's) Substances or any substance(s) derived from or manufactured from GMO's. No GMO material or GMO derived or modified material is used or stored at the ZAR-MIN manufacturing facility.	
<i>Dioxin and Furans</i>	Dioxins: <0.5ng WHO-PCDD/F-TEQ/kg product Sum dioxin and furans: <0.5ng WHO-PCDD/F-PCB-TEQ/kg product	
<i>RUPP</i>	ZAR-MIN is free of Restricted Use Protein Products (RUPP).	

MARC ZAR-MIN does not contain Melamine And Related Compounds (MARC).
Antibiotics Residues ZAR-MIN is in compliance with all US regulations.

Organic Facility Use

ZAR-MIN is listed ORMI as an organic animal feed ingredient. ZAR-MIN, a mined mineral with low solubility and no additives, meets the requirements of the USDA National Organic Program (NOP) for use as an input material in organic operations. Under NOP regulations in Title 7 Part 205 of the CFR, input materials such as ZAR-MIN may be labeled 100% organic, organic, or made with organic natural zeolite and may not be labeled certified organic or USDA Organic. A list of Domestic Accredited Certifying Agents is published on the USDA NOP web site.

Production Process

After removing the waste or over burden, convention small open pit mining methods are used to extract the ZAR-MIN ore. Following air drying, the ore is crushed and transported to storage at the milling site. The stored ore is conveyed to milling, and the ore is milled to the specific particle size to produce ZAR-MIN. ZAR-MIN is shipped in paper bags on pallets, totes, and bulk. There are no additives or diluents added during the production of ZAR-MIN.
