



JAGDAMBA MINERALS

(Manufacturers & Exporters of Minerals)

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MATERIAL SAFETY DATA SHEET

MANUFACTURER:

JAGDAMBA MINERALS

432, UNNATI TOWER, CENTRAL SPINE

VIDHYADHAR NAGAR, JAIPUR-302023

RAJASTHAN, INDIA-91

PRODUCT IDENTIFICATION

Chemical Name : Zeolite (Hydrated Sodium Calcium Aluminosilicate)

Chemical Formula : $Al_2Si_2O_5(OH)_4$

Molecular Weight : 258(approx)

PHYSICAL & CHEMICAL PROPERTIES

Appearance : Fine pink to yellow-white powder.

Odor : Odorless

Solubility : Insoluble in water.

% Volatiles by volume @ 21°C (70°F) : 0

Density : 1.8 - 2.6

SAFETY & FIRST AID

Inhalation: Inhalation of dust may cause irritation to the respiratory tract.

Ingestion: Extremely large oral dosages may produce gastrointestinal disturbances.

Skin Contact: No adverse effects expected.

Eye Contact: No adverse effects expected but dust may cause mechanical irritation.

Chronic Exposure: May produce chronic pulmonary fibrosis and stomach granuloma.

CHEMICAL ANALYSIS

Chemical Component	Percentage
Silica (SiO_2)	47.2%
Alumina (Al_2O_3)	36.0 %
Ferric Oxide (Fe_2O_3)	0.4 %
Magnesium Oxide (MgO)	0.2 %
Calcium Oxide (CaO)	0.84%
TiO ₂	0.3%
Na ₂ O	0.38%
K ₂ O	0.18%
LOI	13.95
PH	7.8

Benefits of Zeolite in Animal Feed Industries

- Zeolites added to livestock feed have been shown to absorb toxins that are damaging and even fatal to the growth of the animals, while the basic structure of the zeolite is biologically neutral
- When zeolite is fed to the animal it adsorbs much of the excess ammonia and acts like a buffer slowly releases the nitrogen at a rate the animal can convert it to amino acids and protein.
- Zeolite also provides a reduction of dicalcium phosphate by up to 50% therefore providing a health benefit and pollution prevention