



SAFETY DATA SHEET

1. Identification

Distributor: AB Vista, Inc.
150 S. Pine Island Road
Suite 270
Plantation, Florida 33324

tel: +1 (954)278-3965

Product Name: Quantum Blue 5G

Product Use: Animal feed additive

Restriction on Use: None identified

Emergency Phone Number: +1 (954)278-3965 (available during office hours only)

MSDS Date of Preparation/Revision: 04/09/2013

2. Hazards Identification

GHS Classification:

Health	Environmental	Physical
Respiratory Sensitizer Category 1	Not Hazardous	Combustible Dust

Label Elements:



DANGER

May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May form combustible dust concentrations in air.

Prevention

Avoid breathing dust or mists.
In case of inadequate ventilation wear respiratory protection.

Response If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
If experiencing respiratory symptoms: Call a physician.

Disposal

Dispose of contents/container in accordance with local and federal regulations.

3. Composition/Information on Ingredients

Components

Component	CAS Number	Percent (w/w)
Wheat Flour	Mixture	30-60
Rape Oil	8002-13-9	3-7
Sodium Chloride	7647-14-5	1-5

The exact concentrations are a trade secret.

4. First Aid Measures

Eye Contact: In case of eye contact, flush eyes immediately with plenty of water. Remove contact lenses, if present and easy to do after the first 5 minutes. Continue rinsing. Seek medical attention if irritation persists.

Skin Contact: No first aid should be required. Wash with soap and water after handling. Seek medical attention if irritation or rash develops and persists.

Inhalation: Move to fresh air. Get medical attention if irritation, allergic symptoms or other symptoms develop and persist.

Ingestion: No first aid should be needed. Not intended for human consumption but no adverse effects are expected from ingestion.

Most Important Symptoms: Mild eye and skin irritation. Inhalation of dust from dried product may cause allergic respiratory reaction in sensitized individuals with symptoms of wheezing and difficulty breathing.

Indication of Immediate Medical Attention and Special Treatment, if Needed: Immediate medical attention is required for inhalation allergic reactions.

5. Fire-Fighting Measures

Suitable Extinguishing Media: Use water spray, water fog, carbon dioxide, foam or dry chemical. Water is most effective. Do not use solid water jet as that may create a dust cloud that can present an explosion hazard.

Specific Hazards Arising from the Chemical: Dust generated in handling this material may present a potential fire and explosion hazard if suspended in air at high concentrations. Settled dust presents a fire hazard. Resuspension of the dust into the air by vibration, traffic, material handling, etc. in high concentrations in the presence of an ignition source could result in a dust explosion. Minimize the generation and accumulation of dust.

Special Protective Equipment and Precautions for Fire-Fighters: Firefighters should wear positive pressure self-contained breathing apparatus and protective clothing to avoid contact.

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: Wear appropriate protective clothing as described in Section 8. Eliminate all sources of ignition.

Methods And Materials For Containment/Cleanup: Scoop or shovel up using methods that minimize the generation of airborne dust. Nonsparking tools should be used. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentrations. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air.)

Report releases as required by local and federal authorities.

7. Handling and Storage

Precautions for Safe Handling: Avoid contact with the eyes. Avoid breathing dust. Wear protective clothing and equipment as described in Section 8. Use with adequate ventilation. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Possible combustible dust hazard. Minimize the generation and accumulation of dust. Keep dust away from open flames, hot surfaces and sources of ignition. Follow good housekeeping practices to keep surfaces, including areas overhead such as piping, drop ceilings, ductwork, etc. free from settled dust. . Dry powders can build static electricity charges when subjected to friction of transfer and in mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.

Conditions for Safe Storage, including any incompatibilities: Store in a dry area away from sources of ignition and strong oxidizing agents.

8. Exposure Controls / Personal Protection

Exposure Guidelines:

Chemical	OSHA PEL	ACGIH TLV
Wheat flour	5 mg/mg (respirable dust) 15 mg/m ³ (total dust) TWA (as PNOC)	0.5 mg/m ³ inhalable TWA (as flour dust); 4 mg/m ³ TWA, 10 mg/m ³ STEL (as grain dust)
Rape oil	5 mg/mg TWA (respirable fraction) 15 mg/m ³ TWA (total) (as vegetable oil mist)	None Established
Sodium Chloride	None Established	None Established

Appropriate Engineering Controls: Use with general or adequate local exhaust ventilation to minimize exposure levels. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust handling systems (such as exhaust ducts, dust collectors, vessels and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e. there is no leakage from the equipment). Use only appropriately classified electrical equipment and powered industrial trucks.

Personal Protective Equipment:

Respiratory Protection: If the occupational exposure limits are exceeded, a NIOSH approved respirator with particulate filters appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 and good industrial hygiene practice.

Hand Protection: None normally required.

Eye Protection: Follow facility requirements. Safety glasses or dust goggles recommended to avoid eye contact.

Skin and Body Protection: None normally required.

Additional Protective Measures: None required.

9 Physical and Chemical Properties

Form:	Solid	Appearance:	Granular
Color:	Light Brown	Odor:	Characteristic
Evaporation Rate:	Not applicable	Odor Threshold:	Not applicable
pH:	Not applicable	Boiling Point/Range:	Not applicable
Flash Point:	None	Vapor Pressure:	Not applicable
Lower Explosion Limit:	Not determined	Vapor Density:	Not applicable
Upper Explosion Limit:	Not determined	Relative Density:	Not determined
Autoignition Temperature:	Not determined	Solubility in Water:	Not determined
Decomposition Temperature:	Not determined	Melting/Freezing Point:	Not applicable
Partition Coefficient:	Not determined	Viscosity:	Not applicable

10. Stability and Reactivity

Reactivity: Not reactive.

Chemical Stability: Stable under normal storage and handling conditions.

Possibility of Hazardous Reactions: Reaction with oxidizers will generate heat and may cause fire.

Conditions to Avoid: Avoid heat, sparks, flames and all other sources of ignition.

Incompatible Materials: Keep away from strong oxidizers.

Hazardous Decomposition Products: Thermal decomposition will release oxides of carbon and nitrogen.

11. Toxicological Information

Health Effects of Exposure:

Ingestion: Not intended for human consumption but no adverse effects are expected from ingestion.

Inhalation: Inhalation of dust may cause irritation of the nose, throat and upper respiratory tract. Repeated inhalation may cause sensitization in some individuals. Inhalation of dust from dried product by a sensitized person may cause an allergic reaction or asthma with symptoms of wheezing and difficulty breathing. Reaction may be severe in some individuals.

Eye: May cause mild irritation.

Skin: May cause mild irritation.

Chronic Effects of Exposure: None currently known.

Carcinogenicity: None of the components is listed as a carcinogen or suspected carcinogen by IARC, ACGIH, NTP or OSHA.

Reproductive Toxicity: No specific data are available. No adverse effects are expected.

Germ Cell Mutagenicity: No specific data are available. No adverse effects are expected.

Numerical Measures of Toxicity: No data available

12. Ecological Information

Ecotoxicity: No data is currently available.

Persistency and Degradability: Components are expected to be biodegradable.

Bioaccumulative Potential: No data is currently available.

Mobility in soil: No data is currently available.

Other Adverse effects: None known.

13 Disposal Considerations

Waste Disposal Method

Waste disposal should be in accordance with existing federal, state, provincial, and/or local environmental control laws. This product, if disposed as purchased would not meet the criteria of a RCRA hazardous waste.

14. Transportation Information

Land Transport (DOT):

Proper Shipping Name: Not Regulated
Hazard Class or Division: None
UN/NA Number: None
Packaging Group: None
Hazard Label(s): None
Reportable Quantity: None

Land Transport (TDG):

Proper Shipping Name: Not Regulated
Hazard Class or Division: None
UN/NA Number: None
Packaging Group: None
Hazard Label(s): None

Sea Transport (IMDG):

Proper Shipping Name: Not Regulated
Hazard Class or Division: None
UN/NA Number: None
Packaging Group: None
Hazard Label(s): None

Air Transport (ICAO/IATA):

Proper Shipping Name: Not Regulated
Hazard Class or Division: None
UN/NA Number: None
Packaging Group: None
Hazard Label(s): None

15. Regulatory Information

United States Federal Regulations

US OSHA Hazard Communication Classification: This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200).

US Toxic Substance Control Act: All the components of this product are listed on the TSCA Inventory or exempt from notification.

US EPA CERCLA Hazardous Substances (40 CFR 302):

Components

None

SARA Section 311/312 Hazard Categories: Chronic Health

**US EPA Emergency Planning and Community Right to Know Act (EPCRA) SARA Title III
Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A):**

Components

None

Section 313 Toxic Chemicals (40 CFR 372.65) – Supplier Notification Required:

Components

None

**US EPA Resource Conservation and Recovery Act (RCRA) Composite List of Hazardous Wastes
and Appendix VIII Hazardous Constituents (40 CFR 261):**

If discarded in purchased form, this product would not require management as a hazardous waste.

California Proposition 65: This product is not known to contain chemicals regulated under California Proposition 65.

Canadian Regulations

Canadian WHMIS Classification: Class D-2-A (respiratory sensitizer)

This material has been classified in accordance with the hazard criteria of the Controlled Products Regulations, and the MSDS contains all the information required by the Controlled Products Regulations.

Canadian CEPA Status: All of the components of this product are listed on the DSL or exempt from notification.

16. Other Information

SDS Date of Preparation: April 9, 2013

Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and handling of Combustible Particulate Solids, for safe handling.