Safety Data Sheet
ACRE BOOST CORN

SECTION 1: Identification

1.1 Product identifier

Product name	ACRE BOOST CORN

1.2 Other means of identification
Not applicable

1.3 Recommended use of the chemical and restrictions on use
Agricultural product

1.4 Supplier's details

Name	Acre Master Performance Crop Inputs
Address	101 Brown Street Amenia, ND 58004 USA
Telephone	701-893-6684

1.5 Emergency phone number(s)
CHEMTREC: 1-800-424-9300

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

GHS classification in accordance with: US OSHA (29 CFR 1910.1200)

- Eye damage/irritation, Cat. 1
- Carcinogenicity, Cat. 1A

2.2 GHS label elements, including precautionary statements

Pictogram

Signal word **Danger**

Hazard statement(s)

H318	Causes serious eye damage
H350	May cause cancer [by inhalation of dust]

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P264	Wash hands and exposed skin thoroughly after handling.
P280	Wear protective gloves, protective clothing, eye protection, face protection.

P305+P351+P338+P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Hazards not otherwise classified (HNOC)

No data available

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Components

Component	Concentration
Talc (CAS no.: 14807-96-6)	**69% (weight)**
Graphite (CAS no.: 7782-42-5)	**17% (weight)**
Zinc Sulfate (CAS no.: 7446-19-7)	**11% (weight)**
Manganese Oxide (CAS no.: 1344-43-0)	**1% (weight)**
Iron Oxide (CAS no.: 1309-37-1)	**1% (weight)**
Quartz (CAS no.: 14808-60-7)	**<1% (weight)**

Bio-capsule ingredients: Azotobacter Chroocuccum, Azotobacter Vinelandii, Bacillus Amyloliquefaciens, Bacillus Licheniformis, Bacillus Megaterium, Bacillus Pumilus, Bacillus Subtilis, Trichoderma Harzianum, Methylobacterium gregans.

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

If inhaled	Remove to fresh air and promote deep breathing. Get medical attention if effects persist.
In case of skin contact	Wash with plenty of soap and water. Get medical attention if irritation develops or persists.
In case of eye contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor.
If swallowed	Call a poison center or doctor if you feel unwell. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

If inhaled	Product particles in case of accidental penetration of the airways may cause mechanical irritation of respiratory tract, cough.
In case of skin contact	Prolonged and repeated exposure may cause skin irritation. Signs/symptoms may include localized dryness, redness, and itching.
In case of eye contact	Causes serious eye damage. Signs/symptoms may include cloudy appearance of the cornea, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.
If swallowed	May cause gastrointestinal irritation and other adverse effects. Signs/symptoms may include burning sensation, abdominal pain, stomach upset, nausea, vomiting and diarrhea.
Chronic effects	May cause cancer. Inhalation of respirable quartz may cause lung diseases, including silicosis and lung cancer.

4.3 Indication of immediate medical attention and special treatment needed, if necessary
Treat symptomatically and supportively.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Specific hazards arising from the chemical
Hazardous combustion products: Carbon monoxide, carbon dioxide, and other hazardous fumes and gases.

5.3 Special protective actions for fire-fighters
Wear self-contained breathing apparatus for firefighting if necessary. Fight fire from a safe distance or a protected location. Approach fire from upwind to avoid hazardous vapours or gases.

Further information
No data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear personal protection recommended in Section 8. Ensure adequate ventilation. Avoid breathing dusts. Avoid formation of suspended dust or powder. Keep all ignition sources away.

6.2 Environmental precautions
Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Sweep up or vacuum up spillage and arrange disposal without creating airborne dust. Keep in suitable, closed containers for disposal.

Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practices. Avoid inhalation and contact with skin and eyes. Ensure adequate ventilation. Wash hands with soap and water after handling. When using do not eat, drink or smoke. Minimize dust generation and accumulation.

7.2 Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from direct sunlight, heat, and sources of ignition.

Specific end use(s)

Apart from the uses mentioned in section 1 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Talc (CAS no.: 14807-96-6)
PEL-TWA: 20 mppcf (OSHA)
REL-TWA: 2 mg/m³ (NIOSH)
TLV-TWA: 2 mg/m³ (ACGIH)

Graphite (CAS no.: 7782-42-5)
PEL-TWA: 15 mppcf (OSHA)
REL-TWA: 2.5 mg/m³ (NIOSH)
TLV-TWA: 2 mg/m³ (ACGIH)

Manganese Oxide (CAS no.: 1344-43-0)
PEL-C: 5 mg/m³ (OSHA)
REL-TWA: 1 mg/m³ (NIOSH)
REL-STEL: 3 mg/m³ (NIOSH)
TLV-TWA: 0.02 mg/m³ (respirable particulate matter), 0.1 mg/m³; (inhalable particulate matter) (ACGIH)

Iron oxide (CAS no.: 1309-37-1) (fume)
PEL-TWA: 10 mg/m³ (OSHA)
REL-TWA: 5 mg/m³ (NIOSH)
TLV-TWA: 5 mg/m³ (respirable particulate matter) (ACGIH)

Quartz (CAS no.: 14808-60-7)
PEL-TWA: 50 µg/m³ [25 µg/m³ Action Level] (OSHA)
REL-TWA: 0.05 mg/m³ (NIOSH)
TLV-TWA: 0.025 mg/m³ (respirable particulate matter) (ACGIH)

8.2 Appropriate engineering controls

Provide general ventilation or local exhaust ventilation to minimize exposure to dust and maintain airborne concentrations below OSHA PELs or other specified exposure limits. Use explosion-proof electrical/ventilating/lighting/equipment.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Wear safety goggles. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Protective gloves (for hands) and protective clothing are recommended.

Body protection
The type of protective equipment must be selected according to the concentration and amount of the dangerous substances at the specific workplace.

Respiratory protection
If engineering controls and ventilation are not sufficient to control exposure to below the allowable limits then an appropriate NIOSH/MSHA approved air-purifying respirator must be used.

Thermal hazards
No data available.

Environmental exposure controls
Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	Grey solid powder.
Odor	Characteristic.
Odor threshold	No data available.
pH	Not applicable.
Melting point/freezing point	No data available.
Initial boiling point and boiling range	No data available.
Flash point	No data available.
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper/lower flammability limits	No data available.
Upper/lower explosive limits	No data available.
Vapor pressure	No data available.
Vapor density	Not applicable.
Relative density	No data available.
Density	No data available.
Solubility(ies)	No data available.
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No data available.
Ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	Not applicable.
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

Other safety information
No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity
Non-reactive under normal use conditions.

10.2 Chemical stability
Stable under normal storage conditions.

10.3 Possibility of hazardous reactions
No data available.

10.4 Conditions to avoid
Avoid airborne dust generation.

10.5 Incompatible materials
Strong oxidizing agents, strong acids, strong bases.

10.6 Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

Information on toxicological effects

Likely Routes of Exposure: Eye contact. Skin contact. Inhalation.

If inhaled	Product particles in case of accidental penetration of the airways may cause mechanical irritation of respiratory tract, cough.
In case of skin contact	Prolonged and repeated exposure may cause skin irritation. Signs/symptoms may include localized dryness, redness, and itching.
In case of eye contact	Causes serious eye damage. Signs/symptoms may include cloudy appearance of the cornea, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.
If swallowed	May cause gastrointestinal irritation and other adverse effects. Signs/symptoms may include burning sensation, abdominal pain, stomach upset, nausea, vomiting and diarrhea.
Chronic effects	May cause cancer. Inhalation of respirable quartz may cause lung diseases, including silicosis and lung cancer.

Acute toxicity
Based on available data, classification criteria are not met.

Components:

Talc (CAS no.: 14807-96-6)
LD50 (oral): >2000 mg/kg
LD50 (dermal): >2000 mg/kg

Graphite (CAS no.: 7782-42-5)
LD50 (oral): >2000 mg/kg
LD50 (dermal): >2000 mg/kg

Zinc Sulfate (CAS no.: 7446-19-7)
LD50 (oral): 574 to 2949 mg/kg
LD50 (dermal): >2000 mg/kg

Skin corrosion/irritation
Based on available data, classification criteria are not met.

Serious eye damage/irritation
Causes serious eye damage.

Respiratory or skin sensitization
No data available.

Germ cell mutagenicity
No data available.

Carcinogenicity
May cause cancer by inhalation of dust.

IARC: Product contains crystalline silica (quartz), which is classified as carcinogenic to humans (Group 1).
NTP: Product contains crystalline silica (quartz), which is classified as known to be a human carcinogen.
OSHA: Product contains crystalline silica (quartz), which is specifically regulated carcinogen by OSHA.

Reproductive toxicity
No data available.

STOT-single exposure
No data available.

STOT-repeated exposure
No data available.

Aspiration hazard
No data available.

Additional information
No data available.

SECTION 12: Ecological information

Toxicity
No data available on product.

Persistence and degradability
No data available on product.

Bioaccumulative potential
No data available on product.

Mobility in soil
No data available on product.

Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

Other adverse effects
No data available on product.

SECTION 13: Disposal considerations

Disposal of the product

Disposal should be in accordance with applicable Federal, State and local laws and regulations. Local regulations may be more stringent than State or Federal requirements.

Disposal of contaminated packaging
Dispose of as unused product.

SECTION 14: Transport information

This product is not considered dangerous goods for shipping in either single or inner packaging of 5kg (11lb) or less.

The following is only applicable for shipping in larger quantities:

DOT (US)
UN Number: UN 3077
Class: 9
Packing group: III
Proper Shipping Name: Environmentally Hazardous Substances, Solid N.O.S. (Zinc Sulfate)

IMDG
UN Number: UN 3077
Class: 9
Packing group: III
Proper Shipping Name: Environmentally Hazardous Substances, Solid N.O.S. (Zinc Sulfate)

IATA
UN Number: UN 3077
Class: 9
Packing group: III
Proper Shipping Name: Environmentally Hazardous Substances, Solid N.O.S. (Zinc Sulfate)

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

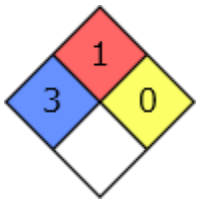
SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard.

SARA 313 Components
Zinc Sulfate (CAS no.: 7446-19-7)
Manganese Oxide (CAS no.: 1344-43-0)

HMIS Rating

ACRE BOOST CORN	
HEALTH	3*
FLAMMABILITY	1
PHYSICAL HAZARD	0

NFPA Rating



SECTION 16: Other information

16.1 Further information/disclaimer

Date of issue: April 02, 2024.

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