

SAFETY DATA SHEET

Magnetar Quad

SECTION 1: IDENTIFICATION

Product Identifier: Magnetar Quad
Nutrient Blend

Recommended Use: Fertilizer and Blending Applications. Use only as labeled.

Manufacturer: Northern Nutrients Ltd.
Site 3, Township Road
360, Saskatoon, SK,
Canada S7K 3J8
1 306 244 2006

Email: info@northernnutrients.com

Emergency Phone Numbers: Manufacturer: 1-306-244-2006
Chemtrec: 1-800-262-8200

SECTION 2: HAZARDS IDENTIFICATION

Hazard Classifications: This product is not classified as dangerous according to GHS requirements and OSHA HCS (NPRM) standards

Signal Word: None

Hazard Statements: None

Precautionary Statements:

- Keep out of reach of Children
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Wear eye protection.
- Do not breathe dust
- Avoid release to the environment.
- IF SWALLOWED: Call a Poison Center or doctor if you feel unwell
- Rinse mouth.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If eye irritation persists, get medical advice/attention.
- Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Ingredients	Cas #	Percent by Weight
Disodium Octaborate Boron-	12280-03-4	0.5-3%
Copper Sulphate Copper	7758-98-7	0.1-2%
Zinc Sulphate Zinc	7733-02-0	0.1-2%
Manganese Sulphate Manganese	7785-87-7	0.1-2%
Potassium Salts of Humic Acids	68514-28-3	2-10%

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SECTION 4: FIRST AID MEASURES

Inhalation	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
Eyes	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.
Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser. If skin irritation occurs, get medical advice/attention.
Ingestion	If conscious and alert, drink water or milk to dilute, then induce vomiting. Call a physician or Poison Control Center immediately.
Most important symptoms/effects, acute and delayed	Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

SECTION 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

Water fog, foam, dry chemical, carbon dioxide (CO₂). Do not use water jet as an extinguisher as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: Thermal degradation at high temperatures above 575° C (1067° F) may produce sulfur trioxide.

5.3. Advice for fire-fighters

Wear positive pressure, self-contained breathing apparatus and goggles. Contain any liquid runoff.

Unusual Fire and Explosion Hazards: None known.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8). Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

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6.3. Methods and material for containment and cleaning up

Collect liquid or absorb onto absorbent material and package for disposal. After removal of spilled product, flush contaminated area thoroughly with water. Do not return spills to original containers for re-use.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Transfer products using chemical-resistant plastic or stainless steel tanks, pumps, valves, etc. Wear the appropriate personal protective equipment when handling this product. Avoid contact with eyes, skin and clothing. Avoid inhalation of spray mists. Wash thoroughly with water after handling.

7.2. Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage. Incompatible materials: Contact with brass or strong oxidizing agents.

Store in plastic or stainless steel container in a cool, well-ventilated, dry place at temperatures above 40° F. Keep container tightly closed. Do not store in contact with brass. Do not store near food or feeds. Do not stack pallets more than two high. Keep out of reach of children.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters (None)

8.2. Exposure controls

Respiratory	If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.
Eyes	Chemical dust goggles or full-face shield to prevent eye contact. As a general rule, do not wear contact lenses when handling.
Skin	Impervious gloves and clothes.
Engineering Controls	Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.
Other Work Practices	Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Dark Brown liquid
Odor	Slight sulfur
Odor threshold	Not available
pH	6.5-8.5
Melting point / freezing point	140/-5° C
Initial boiling point and boiling range	Not available

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Flash Point	Not available
Evaporation rate (Ether = 1)	Not available
Flammability (solid, gas)	
Noncombustible	
Upper/lower flammability or explosive limits	Lower Explosive Limit: Not available Upper Explosive Limit: Not available
Vapor pressure (Pa)	Not available
Vapor Density	Not available
Relative Density	1.10 kg/l
Specific Gravity	Not available
Solubility in Water	100%
Partition coefficient n-octanol/water (Log Kow)	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity (cSt)	Not available
Other information:	
Percent volatile	0% estimated
pH in aqueous solution	Not available

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability: Stable under normal circumstances.

Possibility of hazardous reactions: Hazardous polymerization will not occur.

Conditions to avoid: Avoid contact with incompatible materials.

Incompatible materials: Contact with brass or strong oxidizing agents.

Hazardous decomposition products: Thermal degradation at high temperatures above 575° C (1067° F) may produce sulfur trioxide.

SECTION 11: TOXICOLOGICAL INFORMATION

Magnetar All Out Nutrient Blend**(CAS Mixture) Acute****Toxicity/Irritation Studies:**

Acute Oral LD₅₀ (rat): >5000 mg/kg

Acute Dermal LD₅₀ (rat): >5000 mg/kg

Acute Inhalation LC₅₀ (rat): >0.5 mg/l (4 HR)

Skin corrosion/irritation: Prolonged skin contact may cause temporary irritation.

Eye irritation: Causes mild eye irritation.

Respiratory sensitization: Not available

Skin Sensitization: This product is not expected to cause skin sensitization.

Sub chronic Effects: None known.

Chronic Effects: Prolonged inhalation may be harmful.

Germ Cell Mutagenicity: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity: This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Reproductive Toxicity: This product is not expected to cause reproductive or developmental effects.

STOT-single exposure: Not classified.

STOT-repeated exposure: May cause damage to organs through prolonged or repeated exposure.

[Type here]

Aspiration Hazard: Not available.

SECTION 12: ECOLOGICAL INFORMATION

Aquatic Ecotoxicity

ErC50 algae,

96 hr LC50 fish,

48 hr EC50

mg/l

crustacea, mg/l

mg/l

Magnetar Boron (CAS Mixture)

Not available

Not available

Not available

Persistence and degradability: No data is available on the degradability of this product.

Bioaccumulative potential: Not available.

Mobility in soil: No data available.

Other adverse effects: No other adverse environmental effects are expected from this compound.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Observe all federal, provincial and local regulations when disposing of this substance.

14. TRANSPORT INFORMATION

DOT CLASSIFICATION: Not regulated in domestic (USA ground) transportation.

U.S. Surface Freight Classification: FERTILIZING COMPOUNDS (MANUFACTURED FERTILIZERS), NOI; DRY (NMFC 68140, SUB 5; CLASS 50

15. REGULATORY INFORMATION

Regulatory Overview: The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

Toxic Substance Control Act (TSCA): All components of this material are either listed or exempt from listing on the TSCA inventory.

CERCLA Hazardous Substance List: None

SARA 304 Emergency release notification: Not regulated.

OSHA Specifically Regulated Substances: Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA) Hazard categories:

Immediate Hazard –
Yes Delayed Hazard –
Yes Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard – No

SARA 302 Extremely hazardous substance: Not listed. **SARA 311/312 Hazardous chemical:** No

SARA 313 (TRI reporting)

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List: None

[Type here]

US State Right-To-Know: None

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

16. OTHER INFORMATION

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

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