SAFETY DATA SHEET

Section 1: Identification

Product Name: Phos Vegas The All in 1 Fertilizer
Chemical Name/Synonyms: 9-38-5 with 4% Ca and micronutrients
Recommended Use: Soil additive, fertilizer
Company:
Northern Nutrients Ltd.
Site 3, Township Road 360, Saskatoon, SK, Canada, S7K 3J8
In emergency call: Chemtrac- 1800-262-8200
For information about this SDS, use this contact phone#: +1 (306)-244-2006.

Section 2: Hazard(s) Identification

Hazard Classification: This fertilizer is not classified as dangerous according to Regulation (EC) No 1272/2008
Signal Word(s): None
Hazard Statements: The mixture does not meet the criteria for classification.
Precautionary Statements:
Prevention: Observe good industrial hygiene practice.
Storage: Store away from incompatible materials.
Disposal: Dispose of waste and residues in accordance with local authority requirements.
Description of other hazards: None known.

Section 3: Composition/ Information on Ingredients

Mixtures

Chemical Name	Synonym	CAS#	Conc. %
Monoammonium phosphate		7722-76-1	60.0-80.0
Calcium carbonate		471-34-1	7.0-13.0
Potassium chloride		7447-40-7	7.0-12.0
Calcium sulfate		7778-18-9	0.5-1.5
Iron Oxide		1309-37-1	0.5-1.5
Magnesium oxide		1309-48-4	0.5-1.5
Magnesium Sulfate		7487-88-9	1.0-1.25
Boric Acid		10043-35-3	0.08-0.1
Zinc Sulfate		7446-19-7	1.0-1.25
Copper sulfate		7758-99-8	0.05-0.1

Section 4: First-Aid Measures

After skin contact: Wash off with soap and water. Get medical attention if irritation develops and persists.
After eye contact: Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.
After inhalation: Move to fresh air. Call a physician if symptoms develop or persist.
After swallowing: Rinse mouth. Get medical attention if symptoms occur.

Section 5: Fire-Fighting Measures

Suitable extinguishing agents: Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Special protective equipment for firefighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Specific Hazards arising from the chemical: During fire, gases hazardous to health may be formed. Metal oxides. Sulphur oxides.
Fire fighting equipment/instructions: Use water spray to cool unopened containers.
Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards: Will burn if involved in a fire.
Fire fighting equipment/instructions: Use water spray to cool unopened containers.

Section 6: Accidental Release Measures

Personal precautions: Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. For personal protection, see section 8 of the SDS.
Measures for environmental protection: Avoid discharge into drains, water courses or onto the ground.
Measures for cleaning/collecting: Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Following product recovery, flush area with water.
Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. For waste disposal, see section 13 of the SDS.

Section 7: Handling and Storage

Handling: Minimise dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Practice good housekeeping.
Storage: Store in tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see section 10 of the SDS).

Section 8: Exposure Controls/Personal Protection

General protective and hygienic measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.
Breathing equipment: If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not
been established), an approved respirator must be worn. Respirator type: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or

canister. Selection and use of respiratory protective equipment should be in accordance with OSHA General Industry Standard 29 CFR 1910.134; or in Canada with CSA Standard Z94.4.
Protection of hands: Wear appropriate chemical resistant gloves. Full contact: Glove material: Neoprene, Latex, Nitrile, PVX, Butyl; Layer thickness: 0.3 to 0.6 mm; Breakthrough time: 360 min. Splash contact: Glove material: Neoprene, Latex, Nitrile, PVX, Butyl; Layer thickness: 0.1 to 0.2 mm; Breakthrough time: 30 min. Suitable gloves can be recommended by the glove supplier.
Eye protection: Wear safety glasses with side shields (or goggles).

Section 9: Physical and Chemical Properties

Form: Solid/ granular
Odor: Not available
Odor threshold: Not available
pH: 6-8
Melting point/melting range: Not available
Boiling point/boiling range: Not available
Flash point: Not available
Evaporation rate: Not applicable, material is solid.
Flammability: Will burn if involved in a fire.
Upper/lower flammability or explosive limits: Not applicable, material is solid.
Auto ignition temperature: Not applicable, material is solid.
Danger of explosion: Not available
Vapor pressure: Not applicable, material is solid.
Vapor density: Not applicable, material is solid.
Relative density: Not applicable, material is solid.
Solubility in/Miscibility with water: Soluble
Particle size: >=2-<=3 mm (SGN)

Section 10: Stability and Reactivity

Reactivity: The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability: Material is stable under normal conditions.
Conditions to avoid: Contact with incompatible materials. Humidity
Incompatible materials: Strong oxidising agents
Hazardous decomposition products: Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

Section 11: Toxicological Information

Acute toxicity: Not expected to be acutely toxic.

Components	Species	Test Results
Calcium carbonate (CAS 471-34-1)		
Acute		
Oral		
LD50	Rat	6450 mg/kg
Calcium sulphate (CAS 7778-18-9)		
Acute		
Inhalation		
LC50	Rat	> 3.26 mg/l, 4 Hours

Oral

LD50	Rat	> 1581 mg/kg

Magnesium oxide (CAS 1309-48-4)
Acute
Oral

LD50	Rat	3870 - 3990 mg/kg

Potassium chloride (CAS 7447-40-7)
Acute
Oral

LD50	Rat	3020 mg/kg

Potential routes of exposure/potential health effects
Skin: Prolonged skin contact may cause temporary irritation.
Eye: Direct contact with eyes may cause temporary irritation.
Inhalation: Dust may irritate the respiratory system.
Ingestion: Expected to be a low ingestion hazard.
Carcinogenic effects: Not classified.
Mutagenic effects: Not classified.
Reproductive toxicity: This product is not expected to cause reproductive or developmental effects.
Sensitization: Not classified.
Target organs: Not classified.

Section 12: Ecological Information (non-mandatory)

Ecotoxicity: The product is not classified as environmentally hazardous. However, this does not exclude the
possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Mobility: This product is slightly water soluble and may disperse in soil.
Biodegradation: No data is available on the degradability of this product.
Bioaccumulation: The product has not been tested.

Section 13: Disposal Considerations (non-mandatory)

Disposal instructions: Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Local disposal regulations Dispose in accordance with all applicable regulations. The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Hazardous waste code: Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see Disposal instructions).
Waste from residues / unused products: Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Section 14: Transport Information (non-mandatory)

TDG
Not regulated as dangerous goods.

IATA
Not regulated as dangerous goods.
IMDG
Not regulated as dangerous goods.
Transport in bulk according to Not applicable.
Annex II of MARPOL 73/78 and the IBC Code

Section 15: Regulatory Information (non-mandatory)

Canadian regulations
Controlled Drugs and Substances Act
Not regulated.
Export Control List (CEPA 1999, Schedule 3)
Not listed.
Greenhouse Gases
Not listed.
Precursor Control Regulations
Not regulated.

Section 16: Other Information

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