


SAFETY DATA SHEET

Personal Protection	GHS Hazards	WHMIS (Canada)	Transport Symbol
	Not classified	Not controlled	Not Regulated as a dangerous good

Section 1: Identification

1.1 Product identifier:

42 PHI Cereal

1.2 Recommended use of the chemical and restrictions on use:

Agricultural fertilizer

1.3 Details of the supplier of the Safety Data Sheet:

 ATP Nutrition Ltd.
 190 AgriPark Road
 Oak Bluff, Manitoba, Canada
 R4G 0A5
 Email: info@atpnutrition.ca
 Web address: www.atpnutrition.ca
1.4 24-Hour Emergency telephone number:

In Canada: (204) 287-2023

Section 2: Hazards Identification

2.1 Classification of the substance or mixture according to GHS classifications (UNECE 3rd Revised Edition):

 Not Classified for GHS Hazards according to GHS (UNECE 3rd revised edition) and Regulation (EC) No 1272/2008.

2.2 Label elements:

Not classified

2.3 Other hazards:

 Repeated/prolonged skin contact may cause irritation.
 This fertilizer contains boron and should be used only as recommended. It may prove harmful when misused.

2.4 Other hazard classifications:

Canada: This product is not classified as hazardous and not controlled under WHMIS.

USA: The product is not a hazardous chemical as defined by 29 CFR1910.1200, OSHA Hazard Communication Standard.

Section 3: Composition / Information on Ingredients

Chemical Name	CAS No.	EINECS	Wt. %	GHS Classifications according to UNECE 3 rd Revised Edition
Total Nitrogen	Not available	Not available	1 - 5	Not classified
Available Phosphate	Not available	Not applicable	15 - 30	Not classified
Soluble Potash	Not available	Not applicable	10 - 20	Not classified
Tetraborate salt	Not available	Not available	0.5 – 1.5	Concentration ≥ 5.5% Repr. Cat. 1B; H360FD

Section 4: First-Aid Measures

4.1 Description of first aid measures:

Inhalation: If symptoms are experienced, remove source of contamination or move victim to fresh air. Get medical advice/attention if you feel unwell.

Eye contact: Immediately flush the affected eye(s) with lukewarm, gently flowing water for 15 minutes, or until the chemical is removed, while holding the eyelid(s) open. If irritation persists, obtain medical advice.

Skin contact: Wash with plenty of water and soap until the chemical is removed. If irritation persists, obtain medical advice.

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Section 4: First-Aid Measures, continued

Ingestion: If swallowed, call a POISON CENTER or doctor/physician immediately. Rinse mouth. Take container, label or product name with you when seeking medical attention.

4.2 Most important symptoms and effects, both acute and delayed:

Inhalation: Mists may cause irritation to the nose, throat and respiratory system.

Eye Contact: Direct contact with liquid and mists may cause eye irritation.

Skin Contact: Contact with the skin may cause irritation, particularly if contact is prolonged.

Ingestion: Swallowing is not an expected route of occupational exposure. May cause nausea and vomiting if swallowed. Contains nitrate salts, if swallowed may cause nitrite poisoning Symptoms may include methemoglobinemia, nausea, dizziness, increased heart rate and respiratory paralysis.

4.3 Indication of any immediate medical attention and special treatment needed:

If direct eye contact occurs or if experiencing breathing difficulties, get medical advice immediately.

Section 5: Fire-Fighting Measures

5.1 Extinguishing media:

Use extinguishing media appropriate for the surrounding fire. Dry chemical, water spray, chemical foam, carbon dioxide, water fog. Use water spray to cool fire-exposed containers.

5.2 Special hazards arising from the substance:

Not flammable or combustible.

If involved in a fire, product may release irritating or toxic fumes which may include ammonia, nitrogen oxides, phosphorus oxide.

5.3 Advice for firefighters:

Firefighters should wear full protective gear including self-contained breathing apparatus.

Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures:

Wear gloves and protective clothing. Ventilate area.

6.2 Environmental precautions:

Do not allow product to reach natural waterways or ground water. Fertilizer products may be harmful to livestock and wildlife if swallowed. Clean up any spilled fertilizer products immediately, particularly where bulk quantities of fertilizers are handled.

If the product has escaped into a water course, into the drainage system, or has contaminated the ground or vegetation, notify the competent authorities.

6.3 Methods and material for containment and cleaning up:

Stop leak if it can be done without risk.

Soak up the spilled liquid using a suitable inert absorbent. Collect product and contaminated absorbent and place in suitable, labeled containers for proper disposal. Clean the spill area with plenty of water.

6.4 Additional information:

See Section 8 for information on selection of personal protective equipment.

See Section 13 for information on disposal of spilled product and contaminated absorbents.

Section 7: Handling and Storage

7.1 Precautions for safe handling:

Keep out of reach of children.

Read the label before using.

Do not breathe mist/spray. Do not ingest. Avoid contact with eyes.

Wash hands thoroughly after handling and before eating or smoking.

7.2 Conditions for safe storage, including any incompatibilities:

Store in suitable, labeled containers, preferably the supplier container. Protect from damage. It is good practice to keep storage containers closed when not in use and when empty. Protect from freezing.

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Keep out of reach of children.

Section 8: Exposure Controls/Personal Protection

8.1 Control parameters: Occupational Exposure Limits- consult local authorities for acceptable exposure limits.

8.2 Exposure controls:

Engineering controls: Good general ventilation is normally adequate. In closed workplaces where decomposition product sulfur dioxide may be generated, provide local exhaust ventilation.

Personal protection: Workers must comply with the Personal Protective Equipment requirements of the workplace in which this product is handled.

Eye/Face protection: Wear chemical safety goggles. Where splashing is possible wear a face-shield.

Skin protection: Wear water impervious protective gloves. Remove contaminated clothing and wash before re-use.

Respiratory protection: If ventilation and other engineering controls and work practices are not effective in controlling exposure to mists/aerosols of this material or decomposition products, then wear suitable personal protective equipment including approved respiratory protective equipment (RPE). In workplaces where respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection. Consult with respirator manufacturer to determine respirator selection, use and limitations.

Other protection: In workplaces where this product is handled in bulk quantities, have an eyewash fountain available in the work area. Wash hands thoroughly after handling and before smoking or eating.

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties:

Appearance:	Liquid, light brown.
Odour:	No distinctive odour.
Odour threshold:	Not available
pH:	7.2 – 7.8
Melting point/freezing point:	Similar to water
Initial boiling point and boiling range:	Similar to water
Flash point:	Not applicable
Flammability	Non-flammable
Auto-ignition temperature:	Not applicable
Upper/lower flammability or explosive limits:	Not applicable
Explosive properties:	Non-explosive
Oxidising properties:	Non-oxidising
Sensitivity to mechanical impact:	Not available
Sensitivity to static discharge:	Not applicable
Vapour pressure:	Not applicable
Vapour density:	Not available
Relative density:	1.4 – 1.5 (water = 1)
Solubility (ies):	Completely soluble in water
Partition coefficient (n-octanol/water):	Not available
Decomposition temperature:	Not available
Viscosity:	Similar to water

Section 10: Stability and Reactivity

10.1 Reactivity:

Not classified for reactivity hazards.

10.2 Chemical stability:

Stable.

10.3 Possibility of hazardous reactions:

Use caution when mixing this product with other agricultural chemicals. Some chemicals may be incompatible. Contact the supplier for further information.

10.4 Conditions to avoid:

Avoid prolonged exposure to high temperatures.

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Section 10: Stability and Reactivity, continued

10.5 Incompatible materials:

Incompatible with strong oxidizers such as hypochlorite bleach. May be incompatible with Copper metal and alloys containing copper.

10.6 Hazardous decomposition products:

Heating to decomposition may generate irritating ammonia gas.

Section 11: Toxicological Information

11.1 Information on toxicological effects:
Acute health effects:

Inhalation: Data are not available for the mixture. Based on information for the component substances, over-exposure to mists/aerosols may be irritating to the nasal passages and upper respiratory tract.

Ingestion: Data are not available for the mixture.

Skin: Data are not available for the mixture.

Eye: Data are not available for the mixture. Based on information for the component substances, direct contact may cause temporary eye irritation.

Acute toxicity data:

Component	<u>LD₅₀ Oral</u> (mg/kg)	<u>LD₅₀ Dermal</u> (mg/kg)	<u>LC₅₀ Inhalation</u> (mg/L, 4 hrs.)
42 PHI Cereal	Not available	Not available	Not available
Mono- and Di-Potassium salts of Phosphorus acid	>2 000 (rat)	>5 050 (rabbit)	>2.02 mg/L (rat)

Chronic health effects:

Data are not available.

Sensitization:

Data are not available.

Neurological effects:

Data are not available.

Genetic effects:

Data are not available.

Reproductive effects:

Data are not available.

Developmental effects:

Data are not available.

Target organ effects:

Repeated exposures to concentrated fertilizers by ingestion may cause adverse effects to the kidney. Ingestion is not an expected route of occupational exposure to this fertilizer product.

Carcinogenicity:

This product does not contain any component that is considered a human carcinogen by IARC (International Agency for Research on Cancer), ACGIH (American Conference of Governmental Industrial Hygienists, OSHA or NTP (National Toxicology Program).

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Section 12: Ecological Information

12.1 Toxicity:

This fertilizer product will release nitrogen, phosphate and potash compounds. Fertilizers cause algae growth in aquatic environments which may increase turbidity and deplete oxygen resulting in a hazard to fish and other aquatic organisms.

12.2 Persistence and degradability:

Not available

12.3 Bioaccumulative potential:

Not expected to bioaccumulate.

12.4 Mobility in soil:

Completely soluble in water.

Section 13: Disposal Considerations

13.1 Disposal methods:

Dispose of waste in accordance with relevant national, regional and local environmental control provisions. Do not contaminate lakes, streams, ponds, estuaries, oceans or other waters by discharge of waste effluents or equipment wash water. Container contents should be completely used and the containers rinsed prior to discard. Consult local waste regulators for proper disposal.

Section 14: Transport Information:

14.1 UN Number:

Not applicable

14.2 UN proper shipping name:

Not applicable

14.3 Transport hazard class(es):

Not applicable

14.4 Packing group:

Not applicable

14.5 Environmental hazards:

Not applicable

14.6 Special precautions for user:

Not available

14.7 Transport regulations:

Canadian Transportation of Dangerous Goods (TDG): Not regulated as a dangerous good for transport.

IMO classification: Not regulated as a dangerous good for transport.

ICAO/IATA classification: Not regulated as a dangerous good for transport.

Section 15: Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

Canada

This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the SDS contains all the information required by the *Controlled Products Regulations*.

WHMIS classification:

Not controlled.

Fertilizer product, subject to the regulations under the Fertilizers Act.

DSL status:

All component substances listed on the DSL (Domestic Substances List) or are exempt.

USA

OSHA: Not classified as a hazardous chemical.

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Section 15: Regulatory Information, continued

EU

Classification and labelling: Not classified as hazardous.
Classification of the mixture according to Regulation (EC) No 1272/2008.

Section 16: Other Information

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Supplier disclaimer: This document contains health, safety, and environmental information useful to workers, employers, emergency response agencies and health care providers. It does not replace the precautionary language, use directions or the storage and disposal information found on the product label. To the best of The Supplier's (ATP Nutrition Ltd.) knowledge and belief, the information within this document is accurate and reliable as of the date of preparation of this document. However, no warranty or guarantee, express or implied, is made as to the accuracy or reliability. The Supplier (ATP Nutrition Ltd.) shall not be liable for any loss or damage arising out of the use thereof, including abnormal use, or failure to adhere to recommended practices with respect to any hazards inherent in the nature of the product.