SAFETY DATA SHEET

Section 1: Product and Company Identification

Product Name: NRG Mn ™ 12 – 8 – 4
Product Use: Agricultural fertilizer
Supplier: ATP Nutrition
Box 458
190 AgriPark Road
Oak Bluff, Manitoba, Canada
R0G 1N0
Email: info@atpnutrition.ca
Web address: www.atpnutrition.ca
Phone Number: (204) 287-2023

Section 2: Hazards Identification

<table>
<thead>
<tr>
<th>Personal Protection</th>
<th>OSHA (USA)</th>
<th>WHMIS (Canada)</th>
<th>Transport Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hazardous - Irritant</td>
<td></td>
<td>Not Regulated for Transport</td>
</tr>
</tbody>
</table>

Emergency Overview:
Warning.
Causes skin irritation. Causes eye irritation. May be harmful if inhaled or swallowed.

Appearance, Colour and Odour:
Liquid emulsion, clear, odourless.

Canada: This product is hazardous and controlled under WHMIS.
USA: This is a hazardous material as defined by 29 CFR1910.1200, OSHA Hazard Communication Standard.

Potential Health Effects
ACUTE (short term):

Relevant Route(s) of Exposure:
Skin Contact, Eye Contact

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

Ingestion: No test data are available. Swallowing is expected to cause irritation to the lips, mouth, throat and stomach. Product contains potassium nitrate salts; nitrates may be reduced to nitrites in the digestive tract. Symptoms of nitrite poisoning may include methemoglobinemia, nausea, dizziness, increased heart rate and respiratory paralysis. Over-exposure by swallowing may cause liver and kidney damage. Swallowing is not an expected route of occupational exposure.

Skin: No test data are available. Contact with the skin may cause irritation, particularly if contact is prolonged.

Eye: No test data are available. Contact with the eyes is expected to cause mild to moderate irritation.

CHRONIC (long term): see Section 11 for additional toxicological data
Prolonged or repeated exposure to this product may cause dermatitis.
Repeated occupational exposure to Manganese by inhalation or ingestion can cause condition known as Manganism. Symptoms of chronic manganese poisoning to the central nervous system are tremors, languor, sleepiness and weakness in the legs.

Medical Conditions Aggravated by Exposure:
Not available

Interactions With Other Chemicals:
See Section 10.

Potential Environmental Effects: Manganese compounds released into the natural environment can have long-term adverse effects on the aquatic environment. Prevent release of this product to natural waters.
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Section 3: Composition / Information on Ingredients

Mixture of Urea Potassium dihydrogenorthophosphate, Potassium nitrate and Manganese inorganic salts in water.

Hazardous Ingredients:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Wt.%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium nitrate</td>
<td>7757-79-1</td>
<td>2 - 4</td>
</tr>
<tr>
<td>Manganese phosphate</td>
<td>10124-54-6</td>
<td>4 - 7</td>
</tr>
</tbody>
</table>

Section 4: First Aid Measures

Inhalation: If symptoms are experienced, remove source of contamination or move victim to fresh air. If symptoms persist, obtain medical advice.

Eye Contact: If irritation occurs, immediately flush the contaminated 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: If irritation occurs, flush area with lukewarm, gently running water for at least 5 minutes, or until the chemical is removed. If irritation persists, obtain medical advice.

Ingestion: Have victim rinse mouth thoroughly with water. Do not induce vomiting. Contact poison control center or obtain medical advice immediately. Take container, label or product name with you when seeking medical attention.

Section 5: Fire Fighting Measures

Flammable Properties: Not applicable, product is not combustible.

Suitable extinguishing Media: Use extinguishing media appropriate for the surrounding fire. Dry chemical, water spray, chemical foam, carbon dioxide, water fog.

Unsuitable extinguishing Media: Not applicable

Explosion Data

Mechanical Impact: Not applicable

Static Discharge: Not applicable

Specific Hazards arising from the Chemical: Possible decomposition at very high temperatures (>130°C) may form toxic gases of phosphorus oxide, nitrogen oxide and manganese fumes.

Protective Equipment and precautions for firefighters: Firefighters should wear full protective gear including self-contained breathing apparatus.

Section 6: Accidental Release Measures

Personal Precautions: Wear adequate personal protective equipment. Ventilate area.

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.

Methods for Containment: Stop leak if it can be done without risk.

Methods for Clean-up: 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.
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Section 7: Handling and Storage

Handling: Read the label before using. Avoid contact with eyes. Avoid breathing mists of this product. Do not ingest. Wash hands thoroughly after handling and before eating or smoking.

Storage: 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.

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines
Consult local authorities for acceptable exposure limits.

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Ontario TWAEV (mg/m³)</th>
<th>ACGIH TLV (8-hr. TWA) (mg/m³)</th>
<th>U.S. OSHA PEL (8-hr. TWA) (mg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manganese and inorganic compounds (as Mn)</td>
<td>0.2</td>
<td>0.2</td>
<td>5 Ceiling</td>
</tr>
</tbody>
</table>

Exposure Controls

Engineering Controls: Provide exhaust ventilation or other engineering controls to keep concentrations below the exposure limits listed above.

Personal Protection:

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

Skin Protection: Wear impervious gloves, boots and a chemical protective suit or apron made of materials appropriate for low pH solutions.

Respiratory Protection: In workplaces where airborne levels of the mists exceed the exposure limits, wear an appropriate respirator. A positive pressure supplied-air respirator should be worn when concentrations are unknown or in other circumstances where air purifying respirators may be inadequate.

A respiratory protection program that meets Canadian Standards Association (CSA) Standard Z94.4-2002 or OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Other Protective Equipment: In workplaces where this product is handled in bulk quantities, have a safety shower and eyewash fountain readily available in the work area.

General Hygiene Measures: Avoid contact with eyes. Wash hands thoroughly after handling and before smoking or eating.

Section 9: Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Physical State:</th>
<th>Liquid</th>
<th>Flash Point &amp; method:</th>
<th>Not applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance, Colour and Odour:</td>
<td>Clear, odourless</td>
<td>Autoignition Temperature:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Odour Threshold:</td>
<td>Not available</td>
<td>Flammability Limits in Air:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>pH:</td>
<td>2 - 2.5</td>
<td>Vapour Pressure:</td>
<td>Not available</td>
</tr>
<tr>
<td>Relative Density (water = 1):</td>
<td>1.3 – 1.35 g/L</td>
<td>Vapour Density (Air = 1):</td>
<td>Not available</td>
</tr>
<tr>
<td>Partition coefficient: (n-octanol/water)</td>
<td>Not applicable</td>
<td>Evaporation Rate:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>(n-Butyl Acetate = 1)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solubility:</td>
<td>Soluble in water</td>
<td>Boiling Point/Range:</td>
<td>Similar to water</td>
</tr>
<tr>
<td>Viscosity:</td>
<td>Not available</td>
<td>Freezing Point:</td>
<td>Similar to water</td>
</tr>
</tbody>
</table>
Section 10: Stability and Reactivity

Chemical Stability: Stable
Conditions to Avoid: Avoid prolonged exposure to high temperatures.
Incompatible Materials: Incompatible with strong bases. Incompatible with hypochlorite bleach. Use caution when mixing this product with other agricultural chemicals. Some chemicals may be incompatible. Contact the supplier for further information.
Hazardous Decomposition Products: When heated above 130°C, may generate phosphorus oxides.
Possibility of Hazardous Reactions: Not available

Section 11: Toxicological Information

Acute Toxicity Data
Acute oral, dermal and inhalation toxicity data are not available for this mixture.

Other Toxicity Data
Carcinogenicity: This mixture 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).
Irritation: No experimental data available. Direct contact is expected to cause moderate eye irritation and skin irritation. Mists are expected to be irritating to the respiratory tract.
Corrosivity: Not available
Sensitization: Not available
Neurological Effects: Repeated occupational exposure to Manganese by inhalation or ingestion can cause condition known as Manganism; symptoms include poor appetite, weakness and sleepiness, changes in speech, balance, mood and personality, loss of facial expressions, poor muscle coordination, muscle cramps, twitching and tremors.
Genetic Effects: Not available
Reproductive Effects: Not available
Developmental Effects: Not available
Target Organ Effects: Skin, Eyes.

Section 12: Ecological Information

Ecotoxicity: This mixture will release phosphate. Phosphate in aquatic environments causes algae growth which may increase turbidity and deplete oxygen.
This product will release Manganese compounds which can be harmful or toxic to aquatic organisms.
Swallowing high concentrations of nitrates can be harmful to wildlife and livestock and lead to nitrate/nitrite toxicity.
Persistence/Degradability: Not available
Bioaccumulation/Accumulation: Not expected to bioaccumulate.
Mobility: Completely soluble in water.
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Section 13: Disposal Considerations

Waste Disposal Method: 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. Follow municipal, provincial / state and federal laws and regulations, for proper disposal of fertilizer, where they apply.

Section 14: Transport Information:

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


Section 15: Regulatory Information

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: D2B – Material causing other toxic effects chronic health effects if swallowed or inhaled. Irritant.

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

USA

OSHA Hazards: Immediate (acute) health hazard – irritant.

Section 16: Other Information

Revision Date: February 10, 2012

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.

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