

MATERIAL SAFETY DATA SHEET

NORTRACE® 20-20-20 SOLUBLE FERTILIZER

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL DAY OR NIGHT 1-800-561-8273 or
CHEMTREC 1-800-424-9300

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

DISTRIBUTED BY:

UNITED AGRI PRODUCTS CANADA, INC.
789 Donnybrook Drive • Dorchester, Ontario N0L 1G5

24-Hour Emergency Phone: 1-800-561-8273
Medical Emergencies (Prosar): 1-800-301-7976
Additional Emergency Phone (Canutec): 1-613-996-6666 (Collect)

CHEMICAL IDENTITY: Potassium Nitrate, Urea, Monoammonium Phosphate, Monopotassium Phosphate, and micronutrients

PRODUCT USE: Inorganic chemical fertilizer mixture

REG. NO.: Not applicable

MSDS Number: 67250-08-UAP

MSDS Revisions: All sections

Date of Issue: 01/14/08

Supersedes: 01/14/05

2. HAZARDS IDENTIFICATION SUMMARY

KEEP OUT OF REACH OF CHILDREN – CAUTION - Harmful if swallowed, inhaled or absorbed through skin. May cause eye and skin irritation. Avoid contact with eyes, skin and clothing. Avoid breathing dusts and mists. Use with adequate ventilation. Eye protection and gloves are suggested when handling undiluted product. Wash thoroughly after handling. This water soluble fertilizer is derived from Potassium Nitrate, Urea, Monoammonium Phosphate, Monopotassium Phosphate, Sodium Borate, EDTA (Ethylenediaminetetraacetic Acid) chelates of Copper, Iron, Manganese, and Zinc, and Sodium Molybdate.

This product is a fine, blue-colored colored granular powder with slight ammonia odor. Primary routes of entry are eye contact and skin contact.

3. COMPOSITION, INFORMATION ON INGREDIENTS

| <u>Chemical Ingredients:</u> | <u>Percentage by Weight:</u> | <u>CAS No.</u> | <u>TLV (Units)</u> |
|--|------------------------------|----------------|--------------------|
| Total Nitrogen (N) | 20.00 | Mixture | not listed |
| Available Phosphate (P ₂ O ₅) | 20.00 | Mixture | not listed |
| Soluble Potash (K ₂ O) | 20.00 | Mixture | not listed |
| Boron (B) | 0.02 | Mixture | not listed |
| Copper (Cu) | 0.05 | Mixture | not listed |
| Iron (Fe) | 0.15 | Mixture | not listed |
| Manganese (Mn) | 0.05 | Mixture | not listed |
| Molybdenum (Mo) | 0.0005 | Mixture | not listed |
| Zinc (Zn) | 0.15 | Mixture | not listed |
| Fertilizer salts and inert ingredients | Balance | | |

4. FIRST AID MEASURES

If on skin: Remove all contaminated clothing. Wash skin and hair thoroughly with soap and water. Wash clothing before reuse. If irritation persists, get medical attention.

If in eyes: Flush with running water for at least 15 minutes while holding eyelids open to help flush out material. Get medical attention.

If swallowed: Drink 1-2 glasses of water and induce vomiting. Never induce vomiting or give anything by mouth to an unconscious person. Keep head lower than chest to avoid aspiration into lungs. Call a physician immediately or contact poison control center.

If inhaled: Remove to fresh air. If breathing is difficult, administer oxygen; if breathing stops, administer artificial respiration. Get medical attention immediately.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-800-301-7976. Have the product label or container with you when calling a poison control centre or doctor, or going for treatment.

NOTE TO PHYSICIAN: No known antidote, treat symptomatically.

5. FIRE FIGHTING MEASURES

FLASH POINT (°F/Test Method): Does not flash.

FLAMMABLE LIMITS (LFL & UFL): Not established

EXTINGUISHING MEDIA: Considered non-combustible, use medium appropriate to surrounding fire. Dry chemical, carbon dioxide (CO₂), foam, water spray or fog.

HAZARDOUS COMBUSTION PRODUCTS: May include but are not limited to oxides of carbon, ammonia, oxides of nitrogen, oxides of phosphorous, cyanuric acid, and other asphyxiants.

SPECIAL FIRE FIGHTING PROCEDURES: Use water spray to cool containers exposed to fire. Remain upwind. Avoid breathing smoke. Wear self-contained breathing apparatus and full protective gear.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Dusts or vapors can travel to a sources of ignition and flash back.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Avoid breathing dusts. Sweep up dry spills immediately and transfer to suitable containers for possible land application according to label use or for disposal. Check local and provincial regulations for proper disposal.

CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

7. HANDLING AND STORAGE

HANDLING: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

STORAGE: Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, fold and roll back bags, clamp and close tightly. Do not contaminate water, food or feed by storage and disposal.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Not normally required. If odor is too strong use local ventilation.

RESPIRATORY PROTECTION: Not normally required, if vapors are too strong wear a NIOSH/MSHA approved respirator for organic vapor with dust, mist and fume filters.

EYE PROTECTION: Chemical goggles or shielded safety glasses.

SKIN PROTECTION: Wear protective clothing: long-sleeved shirts and pants, shoes with socks. Wear rubber or chemical-resistant gloves.

| | OSHA PEL 8 hr TWA | ACGIH TLV-TWA |
|-----------------------|-----------------------------------|----------------------|
| Nuisance Particulates | 15 mg/m ³ (total dust) | Not listed |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|---|
| APPEARANCE AND ODOUR: Fine, blue-colored colored granular powder with slight ammonia odor | SOLUBILITY: Complete |
| SPECIFIC GRAVITY (Water = 1): 0.73 g/ml | BULK DENSITY: 730 kg/m ³ |
| VAPOUR PRESSURE: Not established | BOILING POINT: Not established |
| PERCENT VOLATILE (by volume): Not established | EVAPORATION RATE: (Butyl Acetate = 1): Not established |

Note: These physical data are typical values based on material tested but may vary from sample to sample.
 Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

10. STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: Excessive heat.

INCOMPATIBILITY: Strong acids and bases.

HAZARDOUS DECOMPOSITION PRODUCTS: May include but are not limited to oxides of carbon, ammonia, oxides of nitrogen, oxides of phosphorous, cyanuric acid, and other asphyxiants.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

| | |
|---|---|
| Acute Oral LD₅₀ (male rat): > 2000 mg/kg | Acute Dermal LD₅₀ (rabbit): Not established |
| Eye Irritation (rabbit): Causes irritation | Skin Irritation (rabbit): May cause irritation |
| Inhalation LC₅₀ (female rat): Not established. | Skin Sensitization (Guinea Pig): Not established |
| Carcinogenic Potential: Not listed in OSHA, NTP, IARC, or ACGIH. | |
| Target Organs: None | |

12. ECOLOGICAL INFORMATION

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of wastes.

13. DISPOSAL CONSIDERATIONS

Do not reuse containers for any purpose. Completely empty bag into application equipment. Container is to be disposed of at a container collection site. Contact your local dealer/distributor for the location of the nearest collection site. Before taking container to the collection site: make the empty container unsuitable for further use. If there is no container collection site in your area, dispose of the container in accordance with provincial requirements. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Do not contaminate water, food, or feed by storage or disposal.

14. TRANSPORT INFORMATION

DOT/TDG Shipping Description: NOT REGULATED

U.S. Surface Freight Classification: FERTILIZING COMPOUNDS (MANUFACTURED FERTILIZERS), NOI; DRY (NMFC 50320, SUB 5; CLASS 50)

IMDG Shipping Description: NOT REGULATED

Consult appropriate ICAO/IATA regulations for shipment requirements in the Air shipping mode.

15. REGULATORY INFORMATION

NFPA & HMIS Hazard Ratings:

NFPA

HMIS

| | | |
|----------------|------------|----------------|
| 1 Health | 0 Least | 1 Health |
| 0 Flammability | 1 Slight | 0 Flammability |
| 0 Instability | 2 Moderate | 0 Reactivity |
| | 3 High | H PPE |
| | 4 Severe | |

SARA Hazard Notification/Reporting

| | | | |
|--|--------------------|-------------------|-------------------------------------|
| SARA Title III Hazard Category: | Immediate <u>Y</u> | Fire <u>N</u> | Sudden Release of Pressure <u>N</u> |
| | Delayed <u>N</u> | Reactive <u>N</u> | |

Reportable Quantity (RQ) under U.S. CERCLA: Not listed

SARA, Title III, Section 313: Not listed

RCRA Waste Code: Not listed

CA Proposition 65: Not listed

16. OTHER INFORMATION

MSDS STATUS: All sections revised to 16-section format

PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental/ Regulatory Services

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