

Trade Name: Pro Ap Cavalcade 0.29% Plus Fertilizer
 Registration No: 60063-28-040249

DATE ISSUED: 1/12/2008
 SUPERSEDES: NA

M02-002

SECTION 1 CHEMICAL PRODUCT AND COMPANY INFORMATION

Manufacturer or Formulator: Frick Services, Inc.
 3154 W. Depot Street
 CHEMTREC: 800-424-9300 Wawaka, IN 46794
 Emergency Phone: 800-552-1754

Product Name: Pro Ap Cavalcade 0.29% Plus Fertilizer
 Common Name: Pro Ap Cavalcade 0.29% Plus Fertilizer
 Chemical Type: Inorganic Chemical Fertilizer with Pesticide
 IUPAC name: 5-propylamino- α - α -trifluoro-4,6-dinitro-o-toluidine

SECTION 2 COMPOSITION INFORMATION

| Chemical Name and Synonyms | C.A.S. No. | Chemical Formula | WT% | TLV | PEL |
|---|------------|---|-------|---|---------------|
| Prodiamine | 29091-21-2 | not listed | 0.2 | Not Indicated | Not Indicated |
| Blend of the following non-hazardous ingredients: | | | 99.71 | | Not available |
| Urea | 57-13-6 | (NH ₂) ₂ CO | | 10 mg/m ³ (dust) 5 mg/m ³ (resp) | |
| Ammonium Sulfate | 7783-20-2 | (NH ₄) ₂ SO ₄ | | 15 mg/m ³ (dust) | |
| Potassium Chloride | 7447-40-7 | KCl | | 10 mg/m ³ | |

SECTION 3 HAZARDS IDENTIFICATION

Ingestion: May cause aggravation to respiratory tract
Inhalation: Avoid breathing dusts. May cause nose, throat and lung aggravation.
Eye Contact: May cause aggravation.
Skin Absorption: Not normally absorbed through the skin.
Skin Contact: May cause aggravation.
Effects of Overdose: Ingestion of large doses may cause diarrhea, nausea, abdominal cramps or formation of methemoglobinemia. Seek medical attention.

SECTION 4 FIRST AID MEASURES

Ingestion: If victim is fully conscious, immediately give a large quantity of water to drink, then induce vomiting by tickling back of throat with finger. Never give anything by mouth to an unconscious person.
Inhalation: Remove person from contaminated area to fresh air or employ proper respiratory protection until adequate ventilation or other control measure is restored. Apply artificial respiration if necessary.
Eyes: IMMEDIATELY flush eyes with plenty of water, holding eyelids apart to ensure flushing of the entire eye surface and lids. Do not apply any medication except on the advice of a physician.
Skin: Wash with plenty of soap and water. Remove contaminated clothes and footwear. Wash clothing and decontaminate footwear before reuse. Do not apply any medication except on the advice of a physician.
Note to Physician: There is no specific antidote if this product is ingested. If a large amount has been ingested and emesis is inadequate, lavage stomach. This product has a high affinity to activated charcoal. Fifty (50) grams activated charcoal in 400 ml water can be given to absorb the remaining material in the stomach. Treat the patient symptomatically.

SECTION 5 FIRE FIGHTING MEASURES

Extinguishing Media: Water spray, foam, dry chemical, CO₂, sand, or fine earth.
Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.
Unusual Fire and Explosion Hazards: Flammable or explosive with high-energy impact. During extremely high temperature fire conditions, the product may reach melting point and decompose to release NH₃, SO_x, PO_x, or CN.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Environmental Precautions: Keep out of water supplies, lakes, ponds, streams and rivers. This product is a fertilizer and may promote algae growth.
Steps to be taken in case material is released or spilled: Do not touch spilled product. Wear protective clothing, chemical-resistant gloves, shoes and safety glasses or goggles. Use approved respirator if exposure levels are high. If materials are uncontaminated, collect in resealable containers, label containers and reuse as directed on label. Do not reuse bag.

SECTION 7 HANDLING AND STORAGE

Precautions to be taken in handling and storing: Store in original container in a locked storage area inaccessible to children or pets. Store separately from food, feed, fertilizer, seeds, and other pesticides so that cross contamination does not occur.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation Protection: Adequate ventilation.
Respiratory Protection: Approved dust respirator when necessary.
Protective Clothing: Wear long-sleeved shirt and pants; shoes and socks, and impervious gloves.
Eye Protection: In dusty conditions, safety glasses with side shields or goggles may be necessary.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: Not applicable
Density: 68-70lb/ft³
Flashpoint: Non-flammable
pH: Not listed
Appearance: Multi-colored granules.
Extinguishing Media: Use media suitable to extinguish source of fire.

Solubility in Water: Fertilizer chemicals are soluble in water. Herbicide compound and polyurethane coating are water insoluble.
% Volatiles (by volume): Not applicable
Vapor Pressure, mm Hg: 0.0033mPa@25°C
Reaction with Water: None

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SECTION 10 STABILITY AND REACTIVITY

Stability (Normal Conditions): Stable
Conditions to Avoid: Extremely high temperatures. Store separately from acids and basis.
Incompatibility (Material to Avoid): Strong oxidizing agents. Prolonged contact may cause oxidation of unprotected metals.
Hazardous Decomposition Products: During extremely high temperature fire conditions, the product may reach melting point and decompose to release NH₃, SO_x, PO_x or CN.
Hazardous Polymerization: Will not occur

SECTION 11 TOXICOLOGY INFORMATION

| | <u>Oral LD50 (rat)</u> | <u>Dermal LD50 (rat)</u> | <u>Aquatic Fish 96-hour</u> | <u>Aquatic (other)</u> |
|--------------------|------------------------|--------------------------|--|--|
| Prodiamine | >5,000 mg/kg | >2,000 mg/kg | none listed | none listed |
| Urea | 14,300 mg/kg | none listed | > 9,100 mg/L | > 10,000 mg/L (daphnia) |
| Ammonium Sulfate | 640-4,250 mg/kg | > 2,000 mg/kg | > 13.6-159.8 mg total NH ₃ /L | > 27.0 mg/total NH ₃ /L (daphnia) |
| Potassium Chloride | 1,500-2,600 mg/kg | none listed | 2,010 mg/L | none listed |

All toxicity data from TFI Product Testing Results.

SECTION 12 ECOLOGICAL INFORMATION

None listed

SECTION 13 DISPOSAL CONSIDERATIONS

Waste disposal procedures: Pick up with shovel and broom and use as a fertilizer by applying to soil using good agricultural and soil management. If disposal is necessary, follow all applicable local, state and federal regulations.

SECTION 14 TRANSPORTATION INFORMATION

| | | | |
|----------------------------------|----------------------|-----------------------|-------------------|
| Shipping name: | Not regulated by DOT | C.A.S. Number: | See "Ingredients" |
| Hazard Class: | None | D.O.T. Number: | None |
| Reportable Quantity (RQ): | None | Haz Waste No: | None |
| Labels Required: | None | EPA Regist No: | None |
| Placard: | None | | |

SECTION 15 REGULATORY INFORMATION

Carcinogenicity: by IARC?: Yes () No (X) by NTP?: Yes () No (X)
Not on the SARA 302 list of reportable quantities.

SECTION 16 OTHER INFORMATION

| | | | | |
|-----------------------------------|----------------|-------------------------|--------------|--------------|
| Flash Point (Test Method): | Non-flammable | Flammable Limits | LOWER | UPPER |
| Autoignition Temperature: | Not applicable | (% BY VOLUME) | N/A | N/A |

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