SAFETY DATA SHEET

Current as of: 6/28/2016

SDS # **S02-029**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

Product form : Mixture

Product name : Pro Ap Cavalcade .029% plus Fertilizer

Product code : 020101 through 026299 that contain 0.29% Prodiamine

Other means of identification : EPA Reg. No. 60063-41-040249

1.2. Intended Use of the Product

Use of the substance/mixture: Fertilizer and weed killing compound

Details of the supplier of the safety data sheet 1.3.

Frick Services, Inc. 3154 W. Depot Street Wawaka, IN 46794 T 800-552-1754

Emergency telephone number

Emergency number : 1-800-552-1754

SECTION 2: Hazards identification

Classification of the substance or mixture

Classification (GHS-US)

H315 Skin Irrit. 2 Eye Irrit. 2A H319 Skin Sens. 1 H317 STOT SE 3 H335 H402 Aquatic Acute 3 Aquatic Chronic 3 H412

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)



: Warning

Signal word (GHS-US)

Hazard statements (GHS-US) : H315 - Causes skin irritation

H320 - Causes eve irritation

H335 - May cause respiratory irritation

: P261 - Avoid breathing dust/fume/gas/mist/vapors/spray Precautionary statements (GHS-US)

P264 - Wash ... thoroughly after handling

P271 - Use only outdoors or in a well-ventilated area

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P302+P352 - If on skin: Wash with plenty of water/...

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing P312 - Call a poison center/doctor/... if you feel unwell

P321 - Specific treatment (see ... on this label)

P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention P362 - Take off contaminated clothing and wash before reuse

P403+P233 - Store in a well-ventilated place. Keep container tightly closed

P405 - Store locked up

P501 - Dispose of contents/container to ... specify in accordance with local/regional/

national regulations

23 Other hazards

No additional information available

Unknown acute toxicity (GHS-US)

No data available

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SAFETY DATA SHEET

Current as of: 6/28/2016

SDS # **S02-029**

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	% Concentration
Urea	(CAS No) 57-13-6	0.1 - 100
Diammonium phosphate	(CAS No) 7783-28-0	0.1 - 100
Potassium chloride	(CAS No) 7447-40-7	0.1 - 100
Monoammonium phosphate	(CAS No) 7722-76-1	0.1 - 100
Ammonium sulfate	(CAS No) 7783-20-2	0.1 - 100
Potassium sulfate	(CAS No) 7778-80-5	0.1 - 100
Limestone	(CAS No) 1317-65-3	0.1 - 70
Dicyandiamide	(CAS No) 461-58-5	0.1 - 10
Polymer Coating		0.1 - 10
Wax (paraffins- petroleum)	(CAS No) 64771-72-8	0.1 - 10
Pigment		0.1 - 10
Prodiamine	(CAS No) 29091-21-2	0.29

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice(show the label where possible).

First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by

warm water rinse

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persist.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

SAFETY DATA SHEET

Current as of: 6/28/2016

SDS # **S02-029**

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6.3. Methods and material for containment and cleaning up

Methods for cleaning up

: On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vacor.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep containerclosed when not in

use.

Incompatible products : Strong bases. Strong acids.
Incompatible materials : Sources of ignition. Direct sunlight.

7.3. Specific end use(s) No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses.

Respiratory protection : Wear appropriate mask.

Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Multi-colored granules. Color : Multi-colored

Odor : No data available on odor Odor threshold : No data available

рΗ No data available Relative evaporation rate (butyl ace No data available No data available Melting point Freezing point No data available Boiling point No data available Flash point No data available Auto-ignition temperature No data available Decomposition temperature No data available Flammability (solid, gas) No data available Vapor pressure No data available

Relative vapor density at 20 °C : No data available Relative density : No data available

Solubility : Soluble and slowly soluble. Polymer coating insoluble. Water: Solubility in water of component(s)

of the mixture : • : 100 g/100ml • : 77 g/100ml • : 38 g/100ml • : 34 g/100ml

 Log Pow
 : No data available

 Log Kow
 : No data available

 Viscosity, kinematic
 : No data available

 Viscosity, dynamic
 : No data available

 Explosive properties
 : No data available

 Oxidizing properties
 : No data available

 Explosive limits
 : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable. Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

 $\hbox{\bf Extremely high temperatures. Direct sunlight. Extremely high or low temperatures.}$

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SAFETY DATA SHEET

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SDS # **S02-029**

10.5. Incompatible materials

Oxidizing agent. Prolonged contact may cause oxidation of unprotected metals. Strong acids. Strong bases.

10.6. Hazardous decomposition products

Extremely high temperatures. The product may reach melting point and decompose to release NH3, SOx, POx, or CN. fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information	
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Urea (57-13-6)	
LD50 oral rat	8471 mg/kg (Rat)
LD50 dermal rat	> 3200 mg/kg (Rat)
LD50 dermal rabbit	> 21000 mg/kg (Rabbit)
ATE US (oral)	8471.00000000 mg/kg body weight
Ammonium sulfate (7783-20-2)	
LD50 oral rat	2840 mg/kg (Rat)
LD50 dermal rat	> 2000 mg/kg
ATE US (oral)	2840.0000000 mg/kg body weight
Diammonium phosphate (7783-28-0)	
LD50 Oral Rat	6500 mg/kg
LD50 Dermal Rai	> 7950 mg/kg
ATE (Oral)	6,500.00 mg/kg body weight
Monoammonium phosphate (7722-76-1)	
LD50 Oral Rat	5750 mg/kg
LD50 Dermal Rabbit	> 7940 mg/kg
ATE (Oral)	5,750.00 mg/kg body weight
Potassium chloride (7447-40-7)	
LD50 oral rat	2600 mg/kg (Rat)
ATE US (oral)	2600.0000000 mg/kg body weight
Dicyandiamide (461-58-5)	
LD50 Oral Rat	> 5000 mg/kg (Rat)
LD50 Dermal Rabbit	> 2000 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	> 0.26 mg/l/4h (Rat)
Potassium sulfate (7778-80-5)	
LD50 oral rat	6600 mg/kg (Rat)
ATE US (oral)	6600.0000000 mg/kg body weight
Wax (paraffins- petroleum) (64771-72-8)	
LD50 oral rat	> 5000 mg/kg (Rat)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit)
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Com con managementy	Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Tropioduolite textony	Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
	Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
	Based on available data, the classification criteria are not met
Potential Adverse human health effects and	: Based on available data, the classification criteria are not met.
symptoms	
• •	

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SDS # **S02-029**

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Urea (57-13-6) Urea (57-13-6)	SECTION 12: Ecological infor	mation
LEGO fish 1 5.6310 mg/l (8 h. b.garbnia magna) 1.550 fish 2 1.7500 mg/l (8 h. b.garbnia magna) 1.550 fish 2 1.7500 mg/l (8 h. b.garbnia magna) 1.7500 mg/l (8 h. b.garbnia magna) 1.7500 mg/l (8 h. b.garbnia magna) 1.7500 pm/l (8 h. b.garbnia pudda) 1.7500 mg/l (7 h. b.garbnia magna) 1.7500 mg/l (8 h. b.garbnia magna) 1.7	12.1. Toxicity	
EGSD Daphnia -10000 mg/l (48 h. Daphnia magna)	Urea (57-13-6)	
LESO file 17500 mg/l (28 h. Pacelhian macna) LESO Expensive 17500 mg/l (28 h. Pacelhian macna) LESO Expensive 17500 pm/l (16 h. Pacelhian Testachian) LESO Expensive 17500 pm/l (16 h. Pacelhian) LESO Expensive 17500 pm/l (16 h. Pacelhian macrochius) L	LC50 fish 1	> 6810 mg/l (96 h; Leuciscus idus)
EGSD Daphnia 2	EC50 Daphnia 1	> 10000 mg/l (48 h; Daphnia magna)
TIME fin. 1 17500 ppm (96 h. Peceliar reticulates) Threshold limit other aquatic organisms 1 12000 mg/l (16 h. Bacteris, Toxicity test) Threshold limit other aquatic organisms 2 10000 mg/l (16 h. Bacteris, Toxicity test) Threshold limit slipse 2 10000 mg/l (16 h. Bacteris, Toxicity test) Threshold limit slipse 2 10000 mg/l (16 h. Sacreiva Toxicity test) Threshold limit slipse 2 10000 mg/l (16 h. Sacreiva Toxicity test) Threshold limit slipse 2 10000 mg/l (16 h. Sacreiva Toxicity test) Threshold limit slipse 2 24 b. 5 mg/l (Exposure time: 96 h. Species; Oncorhynchus mykiss) Threshold limit slipse 1 10000 mg/l (16 h. Sacreiva Service) Threshold limit slipse 1 100000 mg/l (16 h. Sacreiva Service) Threshold limit slipse 1 10000	LC50 fish 2	17500 mg/l (96 h; Poecilia reticulata)
Threshold limit other auquatic organisms 1 120000 mg/l (16 h. Bacteria: Toxicity test) Threshold limit algae 2 5-10000 mg/l (16 h. Bacteria: Toxicity test) Threshold limit algae 2 5-10000 mg/l (16 h. Bacteria: Toxicity test) Threshold limit algae 2 5-10000 mg/l (16 h. Bacteria: Toxicity test) Threshold limit algae 3 5-10000 mg/l (16 h. Bacteria: Toxicity test) Threshold limit algae 1 26.5 mg/l (Exposure time: 96 h. Species: Oncorhynchus mykiss) LCSO Fish 2 24.9 - 29.4 mg/l (Exposure time: 96 h. Species: Oncorhynchus mykiss) Threshold limit algae 1 155 ppm (96 h; Pimephales promelas) Moncammonium phosphate (7722-76-1) LCSO fish 1 155 ppm (96 h; Pimephales promelas) Potassium chloride (7447-49-7) LCSO fish 1 920 mg/l (96 h; Gambusia affinis: Static system) ECSO Raphnia 1 630 mg/l (48 h; Candosphnia dubia) LCSO fish 2 2010 mg/l (96 h; Lappomis macrochinus; Static system) ECSO Raphnia 2 680 mg/l (48 h; Daphnia magna) Threshold limit algae 1 850 mg/l (48 h; Daphnia magna) Threshold limit algae 2 5-100 mg/l (72 h; Scenedesmus subspicatus) Threshold limit algae 2 5-100 mg/l (46 h; Salmo gardneri (Oncorhynchus mykiss); Cool water) ECSO Raphnia 1 3177 mg/l (48 h; Daphnia magna) ECSO Raphnia 1 3177 mg/l (48 h; Daphnia magna; Static system) ECSO Raphnia 1 3177 mg/l (48 h; Daphnia magna; Static system) ECSO Raphnia 1 3177 mg/l (48 h; Daphnia magna; Static system) ECSO Raphnia 1 3177 mg/l (48 h; Daphnia magna; Static system) ECSO Raphnia 1 3190 mg/l (66 h; Pisces) Potassium sulfate (7778-80-5) LCSO Rish 2 633 - 796 mg/l (66 h; Lepomis macrochirus) ECSO Raphnia 2 1600 mg/l (66 h; Lepomis macrochirus) ECSO Raphnia 2 1600 mg/l (66 h; Lepomis macrochirus) ECSO Raphnia 2 1600 mg/l (66 h; Lepomis macrochirus) ECSO Raphnia 2 1600 mg/l (66 h) ECSO Raphnia 2 1600 mg/l (66 h) ECSO Raphnia 3 1600 mg/l (66 h) ECSO Raphnia 4 1600 mg/l (66 h) ECSO Raphnia 5 1600 mg/l (66 h) ECSO Raphnia 6 1600 mg/l (66 h) ECSO Raphnia 6 1600 mg/l (66 h) ECSO Raphnia 7 1600 mg/l (66 h)	EC50 Daphnia 2	> 10000 mg/l (24 h; Daphnia magna)
Threshold limit other aquatic organisms 2 5-10000 mgl (1Pseudomonas putida) Diammonium phosphate (7783-28-0) LC50 Fish 1 26.5 mgl (Exposure time: 96 h - Species: Oncorhynchus mykiss) LC50 Fish 2 24.5 · 29.4 mgl (Exposure time: 96 h - Species: Oncorhynchus mykiss) LC50 Fish 1 155 ppm (96 h; Pimephales prometas) LC50 Fish 1 155 ppm (96 h; Pimephales prometas) Potassium chloride (7447-40-7) LC50 Fish 1 920 mgl (96 h; Cambusis affinis: Static system) EC50 Daphnia 1 920 mgl (96 h; Cambusis affinis: Static system) EC50 Daphnia 1 920 mgl (96 h; Cambusis affinis: Static system) EC50 Daphnia 1 920 mgl (96 h; Cambusis authoria) LC50 Fish 1 920 mgl (96 h; Cambusis authoria) LC50 Fish 2 210 mgl (96 h; Cambusis authoria) LC50 Fish 2 210 mgl (96 h; Cambusis authoria) LC50 Fish 2 210 mgl (96 h; Cambusis authoria) LC50 Fish 2 210 mgl (96 h; Cambusis authoria) LC50 Fish 3 220 mgl (96 h; Cambusis authoria) LC50 Fish 4 270 mgl (96 h; Cambusis authoria) Threshold limit algae 1 850 mgl (72 h; Seenedesmus subspicatus) Threshold limit algae 2 > 100 mgl (72 h; Seenedesmus subspicatus) Dicyandiamide (461-58-5) LC50 Fish 3 7700 mgl (96 h; Salmo gairdneri (Oncorhynchus mykiss); Cool water) EC50 Daphnia 1 3177 mgl (48 h; Daphnia magna) Threshold limit algae 2 7700 mgl (96 h; Pisces) Potassium sulfate (7778-80-5) LC50 Fish 3 1692 4 mgl (96 h; Albumus albumus) LC50 Fish 4 970 mgl (96 h; Daphnia magna; Static system) EC50 Daphnia 1 980 mgl (48 h; Daphnia magna; Static system) EC50 Daphnia 1 980 mgl (48 h; Daphnia magna; Static system) Threshold limit algae 1 980 mgl (48 h; Daphnia magna; Static system) EC50 Daphnia 2 1180 mgl (96 h; Leponis macrochirus) EC50 Daphnia 2 1180 mgl (96 h; Leponis macrochirus) EC50 Daphnia 2 1180 mgl (96 h; Leponis macrochirus) EC50 Daphnia 2 1180 mgl (96 h; Leponis macrochirus) EC50 Daphnia 2 1180 mgl (96 h; Leponis macrochirus) EC50 Daphnia 2 1180 mgl (96 h; Albumus albumus) Decardiant organisms 1 980 mgl (172 h	TLM fish 1	17500 ppm (96 h; Poecilia reticulata)
Disamonium phosphate (7783-28-0) 28.5 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss) 1.050 Fish 2 24.5 - 29.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss) 1.050 Fish 2 24.5 - 29.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss) 1.050 Fish 2 24.5 - 29.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss) 1.050 Fish 2 24.5 - 29.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss) 1.050 Fish 1 1.050 Fish 2 2.010 mg/l (96 h; Pimephales promeles) 1.050 Fish 2 2.010 mg/l (96 h; Pimephales promeles) 1.050 Fish 2 2.010 mg/l (96 h; Pimephales promeles) 1.050 Fish 2 2.010 mg/l (96 h; Pimephales promeles) 1.050 Fish 2 2.010 mg/l (96 h; Pimephales promeles) 1.050 Fish 2 2.010 mg/l (96 h; Pimephales promeles) 1.050 Fish 1 2.050 Fish 1	Threshold limit other aquatic organisms 1	120000 mg/l (16 h; Bacteria; Toxicity test)
Diammonium phosphate (7783-28-0) 26.5. mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss) 26.5. mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss) 24.8 - 29.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss) 24.8 - 29.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss) 24.8 - 29.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss) 24.8 - 29.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss) 24.8 - 29.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss) 24.8 - 29.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss) 24.8 - 29.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss) 24.8 - 29.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss) 24.8 - 29.4 mg/l (96 h; Pimphina dubia) 25.8 mg/l (72 h; Pimphina dubia) 25.8 mg/l (72 h; Canedashus alfinis; Static system) 25.8 mg/l (72 h; Scenedesmus subspicatus) 25.8 mg/l (72 h; Scenedesm	,	> 10000 mg/l (Pseudomonas putida)
LCSO Fish 1 LCSO Fish 2 LCSO Fish 3 LCSO Fish 3 LCSO Fish 4 LCSO Fish 4 LCSO Fish 1 LCSO Fish 2 LCSO Fish 3 LCSO Fish 3 LCSO Fish 3 LCSO Fish 3 LCSO Fish 4 LCSO Fish 4 LCSO Fish 4 LCSO Fish 5 LCSO Fish 5 LCSO Fish 6 LCSO Fish 7 LCSO Fish 7 LCSO Fish 8 LCSO Fish 9 LCSO F	Threshold limit algae 2	> 10000 mg/l (168 h; Scenedesmus quadricauda)
LCSO Fish 2	Diammonium phosphate (7783-28-0)	
through)	LC50 Fish 1	26.5 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
	LC50 Fish 2	
Potassium chloride (7447-40-7) 920 mg/l (96 h; Gambusia affinis; Static system)	Monoammonium phosphate (7722-76-1)	
LGSG fish 1 ECS0 Daphnia 1 LGSG fish 2 2010 mg/l (96 h; Lepomis macrochirus; Static system) ECS0 Daphnia 2 660 mg/l (48 h; Daphnia magna) Threshold limit algae 1 850 mg/l (72 h; Scenedesmus subspicatus; GLP) Dicyandiamide (461-58-5) LGSG fish 1 7700 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); Cool water) ECS0 Daphnia 2 7700 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); Cool water) ECS0 Daphnia 1 LGSG fish 1 7700 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); Cool water) ECS0 Daphnia 1 LGSG fish 2 7800 mg/l (96 h; Bisces) Potassium sulfate (7778-80-5) LCSG fish 2 1692.4 mg/l (96 h; Alburnus alburnus) LCSG fish 1 1692.4 mg/l (96 h; Bisces) LCSG fish 2 1692.4 mg/l (96 h; Daphnia magna) LCSG fish 2 1693.7 mg/l (96 h; Lepomis macrochirus) ECSG Daphnia 1 1890 mg/l (96 h; Daphnia magna; Static system) 1890 mg/l (96 h; Lepomis macrochirus) ECSG Daphnia 2 1180 mg/l (96 h; Curstacea) 1180 mg/l (96 h; Cur		155 ppm (96 h; Pimephales promelas)
LGSG fish 1 ECS0 Daphnia 1 LGSG fish 2 2010 mg/l (96 h; Lepomis macrochirus; Static system) ECS0 Daphnia 2 660 mg/l (48 h; Daphnia magna) Threshold limit algae 1 850 mg/l (72 h; Scenedesmus subspicatus; GLP) Dicyandiamide (461-58-5) LGSG fish 1 7700 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); Cool water) ECS0 Daphnia 2 7700 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); Cool water) ECS0 Daphnia 1 LGSG fish 1 7700 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); Cool water) ECS0 Daphnia 1 LGSG fish 2 7800 mg/l (96 h; Bisces) Potassium sulfate (7778-80-5) LCSG fish 2 1692.4 mg/l (96 h; Alburnus alburnus) LCSG fish 1 1692.4 mg/l (96 h; Bisces) LCSG fish 2 1692.4 mg/l (96 h; Daphnia magna) LCSG fish 2 1693.7 mg/l (96 h; Lepomis macrochirus) ECSG Daphnia 1 1890 mg/l (96 h; Daphnia magna; Static system) 1890 mg/l (96 h; Lepomis macrochirus) ECSG Daphnia 2 1180 mg/l (96 h; Curstacea) 1180 mg/l (96 h; Cur	Potassium chloride (7447-40-7)	
ECSD Daphnia 1	, ,	920 mg/l (96 h: Gambusia affinis: Static system)
LCS0 fish 2		
EC50 Daphnia 2		
Reshold limit algae 1		
Dicyandiamide (461-58-5)		
Dicyandiamide (461-58-5) LC50 fish 1 T700 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); Cool water) EC50 Daphnia 1 LC50 fish 2 Potassium sulfate (7778-80-5) LC50 fishes 1 LC50 other aquatic organisms 1 LC50 other aquatic organisms 1 EC50 Daphnia 1 LC50 other aquatic organisms 1 EC50 Daphnia 2 T180 mg/l (96 h; Lepomis macorchirus) EC50 Daphnia 2 T180 mg/l (96 h; Lepomis macorchirus) EC50 Daphnia 2 T180 mg/l (96 h; Lepomis sp.) Threshold limit other aquatic organisms 1 S1000 mg/l (72 h; Scenedesmus subspicatus) 12.2. Persistence and degradability Pro Ap Professional Turf Fertilizer Persistence and degradability Not established. Urea (57-13-6) Dammonium phosphate (7783-28-0) Persistence and degradability Inherently biodegradable. Hydrolysis in water. Not established. Monoammonium phosphate (7783-28-0) Persistence and degradability Inherently biodegradable. Hydrolysis in water. Not established. Monoammonium phosphate (772-76-1) Persistence and degradability Inherently biodegradable. Hydrolysis in water. Not established. Biodegradability Inherently biodegradable. Hydrolysis in water. Not established. Monoammonium phosphate (772-76-1) Persistence and degradability Inherently biodegradable. Hydrolysis in water. Not established. Biodegradability inot applicable. Not established. Monoammonium phosphate (77447-40-7) Persistence and degradability Biodegradability not applicable. Not established. Not applicable Photodegradability in the air. Not degradable in the soil. Photodegradable in the soil.	9	
LC50 fish 1		
EC50 Daphnia 1 3177 mg/l (48 h; Daphnia magna)		7700 mg// (00 h) Calma maindanni (Omaanh) mah ya myidisa). Caal yastan
Detassium sulfate (7778-80-5) Tessium sulfate (7778-80-6) Te		
Potassium sulfate (7778-80-5) LC50 fishes 1		
LC50 fishes 1	LC50 lish 2	7900 mg/l (96 h; Pisces)
LC50 other aquatic organisms 1	Potassium sulfate (7778-80-5)	
EC50 Daphnia 1 B90 mg/l (48 h; Daphnia magna; Static system) LC50 Ish 2 653 - 796 mg/l (96 h; Lepomis macrochirus) EC50 Daphnia 2 TLM fish 1 3550 ppm (96 h; Lepomis sp.) Threshold limit other aquatic organisms 1 > 1000 mg/l (96 h) Threshold limit algae 1 2900 mg/l (72 h; Scenedesmus subspicatus) 12.2. Persistence and degradability Pro Ap Professional Turf Fertilizer Persistence and degradability Not established. Urea (57-13-6) Persistence and degradability Inherently biodegradable. Hydrolysis in water. Not established. Diammonium phosphate (7783-28-0) Persistence and degradability Inherently biodegradable. Hydrolysis in water. Not established. Monoammonium phosphate (7722-76-1) Persistence and degradability Inherently biodegradable. Hydrolysis in water. Not established. Monoammonium phosphate (7722-76-1) Persistence and degradability Inherently biodegradable. Hydrolysis in water. Not established. Monoammonium phosphate (7447-40-7) Persistence and degradability Biodegradability: not applicable. Not established. Biodegradability not applicable. Not established. Biodegradabile (7447-40-7) Persistence and degradability Biodegradabile (740-7) Persistence and degradability Not applicable Not applicable Dicyandiamide (461-58-5) Persistence and degradability Not readily biodegradable in water. Non degradable in the soil. Photodegradation in the air. Not established.	LC50 fishes 1	1692.4 mg/l (96 h; Alburnus alburnus)
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	Potassium sulfate (7778-80-5)	

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SAFETY DATA SHEET

Current as of: 6/28/2016

SDS # **S02-029**

Persistence and degradability	Biodegradability: not applicable. Not established.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
BOD (% of ThOD)	Not applicable	
Wax (paraffins- petroleum) (64771-72-8)		
Persistence and degradability	Not established.	
Prodiamine (29091-21-2)		
Persistence and degradability	Not established.	

12.3. Bioaccumulative potential

12.3. Bioaccumulative potential	
Pro Ap Professional Turf Fertilizer	
Bioaccumulative potential	Not established.
Urea (57-13-6)	
BCF fish 1	1 (72 h; Brachydanio rerio; Fresh water)
BCF other aquatic organisms 1	11700 (Chlorella sp.)
Log Pow	-2.591.59
Bioaccumulative potential	Bioaccumulation: not applicable. Not established.
Diammonium phosphate (7783-28-0)	
Bioaccumulative potential	Not bioaccumulative. Not established.
Monoammonium phosphate (7722-76-1)	
Bioaccumulative potential	Not bioaccumulative. Not established.
Potassium chloride (7447-40-7)	
Log Pow	-0.46 (Estimated value)
Bioaccumulative potential	Not bioaccumulative. Not established.
Dicyandiamide (461-58-5)	
BCF fish 1	< 3.1 (Cyprinus carpio; Test duration: 6 weeks)
Log Pow	-1.5 (Experimental value)
Bioaccumulative potential	Bioaccumulation: not applicable. Not established.
Potassium sulfate (7778-80-5)	
Bioaccumulative potential	Not bioaccumulative. Not established.
Wax (paraffins- petroleum) (64771-72-8)	
Bioaccumulative potential	No bioaccumulation data available
Pigment	
Bioaccumulative potential	Not established
Prodiamine (29091-21-2)	
Bioaccumulative potential	Not established

12.4. Mobility in Soil

No additional information available

12.5. Other adverse effects

No additional information available

Waste disposal recommendations

SECTION 13: Disposal considerations

13.1. Waste treatment methods

: Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

14.1. In accordance with DOT

Not regulated for transport

14.2. In accordance with IMDG

Not regulated for transport

14.3. In accorance with IATA

Not regulated for transport

SAFETY DATA SHEET

Current as of: 6/28/2016

SDS # **S02-029**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 15: Regulatory information **US Federal regulations**

Pro Ap Professional Turf Fertilizer		
Not listed on the United States TSCA (Toxic Substances Control Act) inventory		
All components of this product are listed on the Toxic Substances Control Act (TSCA) inventory except for:		
Prodiamine	CAS No 29091-21-2	

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

SECTION 16: Other information

Revision date

15.1.

GHS full text phrases

Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Eye Irrit. 2B	Serious eye damage/eye irritation Category 2B
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H315	Causes skin irritation
H320	Causes eye irritation
H335	May cause respiratory irritation
H401	Toxic to aquatic life
H402	Harmful to aquatic life

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