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2740 Couch Road
P.O. Box 46
Putnam, Ontario
N0L 2B0

FERTILIZER (Various Grades) Generic Agri Blends

MATERIAL SAFETY DATA SHEET

EMERGENCY TELEPHONE NUMBER 1-800-265-1902 or 519-485-5770

HAZARD SUMMARY

Physical Hazards: None
Health Hazards: Irritant, Skin and Eyes

1. PRODUCT IDENTIFICATION

Product Name: Fertilizer (Various Grades) Generic Agri Blends
Synonyms: Fertilizer (Urea containing Grades)

COMPOSITION

A mixture containing any or all of the following:

- Sulphur Coated Urea
- Polymer Coated Urea
- Urea
- Methylene Urea
- Diammonium Phosphate
- Potassium Chloride
- Potassium Sulphate
- Calcium Carbonate
- Triple Superphosphate
- Monoammonium Phosphate
- Sulphate of Potash-Magnesia
- Ammonium Nitrate

And other non-hazardous ingredients

Section I. Chemical Product and Company Identification

SUPPLIER

MANUFACTURER

Sylvite Agri Services Ltd.
P.O. box 46, 2740, Couch Road
Putnam, Ontario, N0L

DOT / TDG Pictograms

REVISION NUMBER 1.1

1

0

Health 0

Flammability

Reactivity

WHMIS Classification

NAME CAS #

Exposure Limits (ACGIH)

% by

Weight

TLVTWA

mg/m³

STEL

mg/m³

CEIL

mg/m³

TOXICOLOGICAL DATA ON

INGREDIENTS

Monoammonium Phosphate TFI Product Testing Program:

Acute oral LD₅₀, rat, OECD 425 protocol: >2,000 mg/kg. MAP is not acutely toxic by the oral route of exposure.

Acute dermal LD₅₀, rat, OECD 402 protocol: >5,000 mg/kg. MAP is not acutely toxic by the dermal route of exposure.

Diammonium Phosphate TFI Product Testing Program:

Acute oral LD₅₀, rat, OECD 425 protocol: >2,000 mg/kg. DAP is not acutely toxic by the oral route of exposure.

Acute dermal LD₅₀, rat, OECD 402 protocol: >5,000 mg/kg. DAP is not acutely toxic by the dermal route of exposure.

Ecotoxicity:

Acute fish toxicity, 96hr LC₅₀, various species, 90-1,875 mg/L.

Potash TFI Product Testing Program Results:

Acute oral toxicity: 2,600 mg/kg rat; 1,500 mg/kg mouse

Ecotoxicity:

Acute toxicity to fish, species unspecified, LC₅₀, 96hr: 2,010 mg/L

Acute toxicity to invertebrates, Daphnia, 48hr TLM 337mg/L

No regulated components.

TLVTWA

ppm

STEL

ppm

CEIL

ppm

Section II. Hazardous Ingredients

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Urea TFI Product Testing Program Results:

Acute oral toxicity: 14,300 mg/kg rat; 11,500 mg/kg mouse; 510 mg/kg cattle

Chronic oral toxicity, NOAEL: 6,750 mg/kg mouse; 2,250 mg/kg rat

Ecotoxicity:

Acute toxicity to fish, Barillius barna, LC₅₀, 96hr: >9,100 mg/L

Acute toxicity to invertebrates, Daphnia, EC₅₀ (24hr) >10,000 mg/L

Acute toxicity to birds, pigeon, LDLo = 16,000 mg/kg subcutaneous

Toxicity to algae, Scenedesmus quadricauda, cell multiplication inhibition, TT(192 hr) > 10,000 mg/L

Calcium carbonate:

Acute oral toxicity: 6,450 mg/kg rat; Sax

This product and its components are not considered hazardous according to WHMIS (Canada)

HSC, (United States) and DSCL (Europe).

Section III. Hazards Identification.

This product may irritate eyes and skin upon prolonged or repeated contact (salt effects). Over-exposure by inhalation may cause respiratory tract irritation. Ingestion of this substance may produce irritation of the gastro-intestinal tract, characterized by burning and diarrhea.

CARCINOGENIC EFFECTS: NONE by ACGIH, EPA, IARC, NTP, OSHA.

MUTAGENIC EFFECTS: NONE by ACGIH, EPA, IARC, NTP, OSHA.

TERATOGENIC EFFECTS: NONE by ACGIH, EPA, IARC, NTP, OSHA.

There is no known effect from chronic exposure to this product.

POTENTIAL CHRONIC

HEALTH EFFECTS

POTENTIAL ACUTE HEALTH

EFFECTS

May be irritating to the mouth, throat and digestive tract and bowels resulting in nausea, vomiting, and diarrhea. Do not induce vomiting. If vomiting does occur, lower the person's head and to prevent choking. Have affected person drink several glasses of water to assist in purging system. Obtain medical attention if feeling ill.

EYE CONTACT

MINOR SKIN CONTACT

SEVERE INHALATION

MINOR INHALATION

SLIGHT INGESTION

EXTENSIVE INGESTION

May cause eye irritation. Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Obtain medical attention if irritation persists.

May cause skin irritation. Wash contaminated skin with soap and water. Cover dry or irritated skin with a good quality skin lotion. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

No additional information.

Repeated or prolonged inhalation of dust may lead to respiratory irritation. Loosen tight clothing around the individual's neck and waist. Allow the person to rest in a well ventilated area. Obtain medical attention if irritation persists.

In emergency situations use proper respiratory protection to evacuate affected individuals to a safe area as soon as possible. Loosen tight clothing around the person's neck and waist.

Oxygen may be administered if breathing is difficult. If the person is not breathing, perform artificial respiration. Obtain immediate medical attention.

No additional information.

Section IV. First Aid Measures

EXTENSIVE SKIN CONTACT

THE PRODUCT IS

AUTO-IGNITION

TEMPERATURE

FLASH POINT

FLAMMABILITY LIMITS

Not applicable.

Non-flammable.

Not applicable.

Not applicable.

Section V. Fire and Explosion Data

Continued on Next Page

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PRODUCTS OF

COMBUSTION

FIRE FIGHTING MEDIA AND

INSTRUCTIONS

FIRE HAZARD IN THE

PRESENCE OF VARIOUS

SUBSTANCES

Material will not burn. Undergoes thermal decomposition at elevated temperatures to release toxic and combustible gases: ammonia, nitrogen oxides, phosphorous oxides.

Material will not burn. Undergoes thermal decomposition at elevated temperatures to release toxic and combustible gases. Use extinguishing media suitable for surrounding materials.

Not applicable.

Non combustible. Flammable/toxic gases will form at elevated temperatures (>190 °C) by

thermal decomposition (ammonia, nitrogen oxides, phosphorus oxides). A self contained breathing apparatus should be used to avoid inhalation of toxic fumes.

SPECIAL REMARKS ON

EXPLOSION HAZARDS

**EXPLOSION HAZARD IN THE
PRESENCE OF VARIOUS
SUBSTANCES**

This product is non-explosive.

SPECIAL REMARKS ON

FIRE HAZARDS

No additional remark.

Section VI. Accidental Release Measures

SMALL SPILL

LARGE SPILL

Use appropriate tools to put the spilled solid in a suitable container for intended use or disposal.

In the event of a spill, prevent additional discharge of material, if possible to do so without hazard. Prevent spills from entering sewers, watercourses, wells, etc. Product will promote algae growth which may degrade water quality and taste. Notify downstream water users. Will dissolve and disperse in water. Reclaiming material may not be viable. If possible, recover and place material in suitable containers for recycle, reuse, or disposal. Ensure disposal complies with government requirements and local regulations.

STORAGE Store in a dry, cool and well ventilated area.

Avoid contact with skin and eyes. After handling, always wash hands thoroughly with soap and water. Do not breathe dust. Keep away from food, drink and animal feed. Avoid contact with incompatible substances. Keep out of reach of children.

PRECAUTIONS

Section VII. Handling and Storage

ENGINEERING CONTROLS

PERSONAL PROTECTION

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, use ventilation to keep exposure to airborne contaminants below the exposure limit.

The selection of personal protective equipment varies, depending upon conditions of use. Wear appropriate respiratory protection for dust/mist when ventilation is inadequate. A filtering facepiece dust mask is recommended for most applications if respiratory protection is needed. Where skin and eye contact may occur as a result of brief periodic exposures, wear long sleeved clothing, coveralls, chemical resistant gloves, and safety glasses with side shields. A respiratory protection program that meets OSHA 29 CFR 1910.134 requirements must be followed whenever workplace conditions warrant a respirator's use.

PERSONAL PROTECTION IN

CASE OF LARGE RELEASE

EXPOSURE LIMITS

No additional information.

OSHA PEL: 15 mg/m³ as total dust and 5 mg/m³ for the respirable fraction for Particulates Not Otherwise Regulated (nuisance particulates). 29 CFR 1910.1000 Table Z-1.

Federal, State or Provincial exposure limits may vary by jurisdiction. Consult local authorities for acceptable exposure limits in your area.

Section VIII. Exposure Controls/Personal Protection

Continued on Next Page

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Decomposes.

Section IX. Physical and Chemical Properties

PHYSICAL STATE AND

APPEARANCE

VOLATILITY

pH (10% SOLN/WATER)

MELTING POINT

BOILING POINT

VAPOR PRESSURE

ODOR

THRESHOLD

SPECIFIC GRAVITY g/cc

VAPOR DENSITY

WATER/OIL DIST.

COEFF.

DISPERSION

PROPERTIES

SOLUBILITY

Solid. (A blend of white, brown and/or red crystalline granules.)

Not applicable.

6-7

Variable depending on components.

Not applicable

Not applicable.

Not applicable. Not available.

See solubility in water.

Easily soluble in hot water. Soluble in cold water.

17 PPM (Ammonia)

CRITICAL TEMPERATURE Not available.

MOLECULAR WEIGHT Not applicable.

ODOR Odorless.

TASTE Acrid. (Slight.)

COLOR White, brown, and/or red.

BULK DENSITY

kg/m³; lbs/ft³

Variable based on composition.

INSTABILITY

TEMPERATURE

CONDITIONS OF

INSTABILITY

STABILITY

CORROSIVITY

SPECIAL REMARKS ON

CORROSIVITY

SPECIAL REMARKS ON

REACTIVITY

The product is stable.

Corrosive to aluminum, zinc, and copper. Slightly corrosive to mild steel and 304 stainless steel. Non-corrosive to 316 stainless steel.

Very slightly reactive with metals (may cause slow corrosion) or with moisture (may cake).

Incompatible with copper alloys. Corrosive to brass. Corrosive to ferrous metals and alloys.

Contact your sales representative or a metallurgical specialist to ensure compatibility with system equipment.

Avoid contact with moisture. Product may cake.

Section X. Stability and Reactivity Data

Not available.

No additional remark.

INCOMPATIBILITY WITH

VARIOUS SUBSTANCES

TOXICITY TO ANIMALS

OTHER EFFECTS ON

HUMANS

SPECIAL REMARKS ON

CHRONIC EFFECTS ON

HUMANS

SPECIAL REMARKS ON

TOXICITY TO ANIMALS

SIGNIFICANT ROUTES OF

EXPOSURE

Ingestion. Inhalation.

See Section II.

Our data base contains no additional remark on the toxicity of this product

Very low toxicity for humans or animals. Will release ammonium ions. Ammonia is a toxic hazard to fish. May be harmful to livestock and wildlife if ingested. Clean up all spilled

material, especially where bulk fertilizer loading of equipment occurs. Will slowly release

ammonia and degrade to nitrate. Ammonia is a toxic hazard to fish. However, ammonia

release is slow making urea much less toxic than ammonium salts. Non-persistent. Noncumulative

when applied using normal agricultural practises. The product itself and its products of degradation are not harmful under normal conditions of careful and responsible use. U.S. D.O.T.: This material is NOT listed as a Marine pollutant.
No additional remark.

Section XI. Toxicological Information

Continued on Next Page

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SPECIAL REMARKS ON OTHER EFFECTS ON HUMANS

No additional remark.

Section XII. Ecological Information

ECOTOXICITY Non-persistent. Non-cumulative when applied using normal agricultural practises. Very low toxicity for humans or animals. Will release ammonium ions. Ammonia is a toxic hazard to fish. Avoid spills or release to watercourses.

BOD and COD

PRODUCTS OF DEGRADATION

TOXICITY OF THE PRODUCTS OF DEGRADATION

SPECIAL REMARKS ON THE PRODUCTS OF DEGRADATION

DEGRADATION

SPECIAL REMARKS ON THE PRODUCTS OF DEGRADATION

DEGRADATION

SPECIAL REMARKS ON THE PRODUCTS OF DEGRADATION

DEGRADATION

Not available.

Nitrogen oxides (NO,NO₂), phosphates

The products of biodegradation are not harmful under normal conditions of slow metabolic release.

Product will promote algae growth which may degrade water quality and taste. Notify downstream water users. Will dissolve and disperse in water. Reclaiming material may not be viable.

Section XIII. Disposal Considerations

WASTE DISPOSAL OR RECYCLING

RECYCLING

Recover and place material in a suitable container for intended use or disposal. Ensure disposal complies with government requirements and local regulations.

Section XIV. Transport Information

DOT / TDG CLASSIFICATION

PIN and Shipping Name

Not controlled under TDG (Canada) or D.O.T. (U.S.A.)

Not applicable.

SPECIAL PROVISIONS FOR TRANSPORT

TRANSPORT

No additional remark.

DOT (U.S.A) (Pictograms)

Section XV. Other Regulatory Information and Pictograms

OTHER REGULATIONS

OTHER CLASSIFICATIONS HCS (U.S.A.)

DSCL (EEC)

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA): This product is on the Domestic Substances List (DSL), and acceptable for use under the provisions of CEPA.

TSCA (Toxic Substance Control Act): This product's components are listed on the TSCA Inventory.

This product is not considered as a priority pollutant as regulated under the Clean Water Act.

This product is not subject to the TRI reporting requirements of EPCRA Sec 313 when used as intended for agricultural purposes.

National Fire Protection Association (U.S.A.)

Association (U.S.A.)

0

0

Health 1

Fire Hazard

Reactivity

Specific Hazard

Not controlled under the HCS (United States).

Not controlled under DSCL (Europe).

Hazards presented under acute emergency conditions only:

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DSCL (Europe)

(Pictograms)

ADR (Europe)

(Pictograms)

TDG (Pictograms -

Canada)

Not applicable.

REFERENCES -Transportation of Dangerous Goods Act and Clear Language Regulations, current revision.

-Canada Gazette Part II, Vol. 122, No. 2 Registration SOR/88-64 31 December, 1987

Hazardous Products Act "Ingredient Disclosure List".

-Domestic Substances List, Canadian Environmental Protection Act.

-29 CFR Part 1910

-33 CFR Parts 151, 153, 154, 156

-40 CFR Parts 1-799

-46 CFR Part 153

-49 CFR Parts 1-199

-American Conference of Governmental Industrial Hygienists, Threshold Limit Values for Chemical Substances, 2004.

-NFPA 704, National Fire Codes Online, National Fire Protection Association, current edition at time of MSDS preparation.

-Corrosion Data Survey, Sixth Edition, 1985, National Association of Corrosion Engineers

-TOMES® System: Heitland G & Hurlbut KM (Eds) (electronic version): MICROMEDEX,

Greenwood Village, Colorado, USA. Available at: <http://csi.micromedex.com> (2004). The

TOMES® System includes MEDITEXT® Medical Management; HAZARDTEXT® Hazard

Management; INFOTEXT® Documents; ERG2000 Emergency Response Guidebook

Documents; REPROTEXT®: Heitland G & Hurlbut KM (Eds); CHRIS Hazardous Chemical Data:

U.S. Department of Transportation, U.S. Coast Guard, Washington, D.C. (2004); HSDB:

Hazardous Substances Data Bank. National Library of Medicine, Bethesda, Maryland (2004);

IRIS: Integrated Risk Information System. U.S. Environmental Protection Agency, Washington,

D.C. (2004); NIOSH: Pocket Guide to Chemical Hazards. National Institute for Occupational

Safety and Health, Cincinnati, Ohio (2004); OHM/TADS: Oil and Hazardous Materials Technical

Assistance Data System. U.S. Environmental Protection Agency, Washington, D.C. (2004);

REPROTOX®: Scialli A.R. Georgetown University Medical Center and Reproductive Toxicology

Center, Columbia Hospital for Women Medical Center, Washington, D.C. (2004); RTECS®:

Registry of Toxic Effects of Chemical Substances. National Institute for Occupational Safety and

Health, Cincinnati, Ohio (2004); and SHEPARDS: Shepard T.H.: Shepard's Catalog of

Teratogenic Agents (2004).

-The Fertilizer Institute Product Testing Program Results, March 2003

OTHER SPECIAL**CONSIDERATIONS****Section XVI. Other Information**

FOR FURTHER SAFETY, HEALTH, OR

ENVIRONMENTAL INFORMATION ON

THIS PRODUCT, CONTACT Tel. 1 800 265-1902 Fax 519 485-0365

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