SAFETY DATA SHEET

30-0-15 - 80% SRN

Section 1 – Product and Company Identification

Product Name:	**30-0-15 - 80% SRN**
Product Use:	Fertilizer
Company Information:	Turf-Shark Fertilizer Inc. P.O. Box 31009 Willow West Guelph ON N1H 8K1 Office: 519-265-8863 Fax: 519-265-3111
Emergency Telephone Number:	Canutec 613-996-6666 Chemtrec 800-424-9300

Section 2 – Hazards Identification

Physical State:	Solid.
Colour:	Multi-coloured granules.
Odour:	Slight.

Potential Health Effects

Routes of Exposure: Eyes, skin and inhalation.
Eye Contact: Contact, dust or powder may cause eye irritation.
Skin Contact: Dust or powder may irritate skin.
Inhalation: Dust may irritate throat and respiratory system.
Ingestion: Harmful if swallowed. Seek medical care. Do not induce vomiting.

Signs and Symptoms: May include irritation of the nose, respiratory tract, throat and digestive tract, nausea, vomiting and diarrhea.

Section 3 – Composition/Information of Ingredients

Ingredient	CAS #
Dolomite Limestone	1317-65-3
Pro-Maxx	
Urea	57-13-6
Dicyandiamide	461-58-5
N-(n-butyl)-thiophosphoric triamide	94317-64-3
Non hazardous component	Proprietary
N-Methyl-2-pyrrolidone	872-50-4
Non hazardous dye	Proprietary
Muriate Of Potash	7447-40-7
Potassium Sulphate	7778-80-5
Urea	57-13-6
SRN-PSCU	
Sulphur	7704-34-9
Urea	57-13-6

Section 4 – First Aid Measures

Eye Contact: Do not rub eyes. Immediately flush eyes with water; remove contact lenses if present, then continue flushing eyes for at least 15 minutes. Seek medical attention if irritation develops and persists.
Skin Irritation: Wash skin with plenty of water. Seek medical attention if irritation develops and persists.
Inhalation: Move person to fresh air; if effects occur, consult a physician.
Ingestion: If swallowed, seek medical attention. Rinse mouth thoroughly. Do not induce vomiting unless directed to do so by medical personnel. Do not give anything by mouth to an unconscious or convulsive person.

Notes to Physician: The effects could be delayed.

Section 5 – Fire Fighting Measures

Extinguishing Media:	Water, foam, CO_2, dry chemical.
Fire Fighting Procedures:	Use a stream of water to cool containers and surfaces exposed to fire and to dissipate vapours. Use a self-contained respirator.
Other Fire Or Explosion Hazards:	Toxic gases may be released at elevated temperatures.

Section 6 – Accidental Release Measures

Personal Precautions:	Do not touch damaged containers or spilled material unless wearing appropriate protective gear. Stay upwind.
Environmental Precautions:	If safe to do so, prevent further spillage.
Clean Up:	Shovel spilled material into containers, trying to generate as little dust as possible. Prevent from entering sewers/waterways.

Section 7 – Handling and Storage

Handling: Avoid prolonged exposure. Wear appropriate protective equipment. Avoid generating dust. Avoid inhalation of dust and contact with eyes. Wash hands thoroughly before eating, drinking and/or smoking. Wash thoroughly after handling the product.
Storage: Store in tightly closed container in a well-ventilated area. Keep away from food, drink and animal feed. Keep out of reach of children.

Section 8 – Exposure Controls/Personal Protection

Recommended Exposure Limit:	No recommended exposure limits for this product.

<u>Personal Protective Equipment</u>

Respiratory Protection:	Use NIOSH-approved respiratory mask.
Protective Gloves:	Use protective gloves (PVC, Neoprene or Rubber).
Eye Protection:	Use close fitting safety goggles.
Other Protection:	Not needed for normal use.
Work Hygienic Practices:	Upon contact with skin or eyes, wash with water. Wash hands thoroughly after handling the product.

Section 9 – Physical and Chemical Properties

Physical State:	Solid.
Appearance:	Multi-coloured granules.
Odour:	Slight.
Solubility in Water:	Partially soluble.
pH:	N/A

Section 10 – Stability and Reactivity

Chemical Stability:	Stable at normal temperatures.
Conditions To Avoid:	Extreme temperatures.
Incompatible Materials:	Acids, alkaline materials, strong oxidizing or reducing agents.
Hazardous Decomposition Products:	Ammonia. Hydrogen sulfide. During combustion: carbon, nitrogen and sulphur oxides.
Hazardous Polymerization:	Will not occur.

Section 11 – Toxicological Information

Toxicological Data

Components	Test Results
N-(n-butyl)-thiophosphoric triamide	Acute NOAEL Rat: 445 mg/kg 1 day Acute Dermal LD50: >2000 mg/kg Acute Oral LD50 Rat: >2823 mg/kg
N-Methyl-2-pyrrolidone	Acute Dermal LD50 Rabbit: 8000 mg/kg Acute Dermal LD50 Rat: >5000 mg/kg Acute Inhalation LC50 Rat: >5.1 mg/l Acute Oral LD50 Rat: 3914 mg/kg
Urea Sulfur Potassium Sulphate	Acute Oral LD50 Rat: 8471 mg/kg Acute Oral LD50 Rat: >3000 mg/kg Acute Oral LD50 Rat: 6600 mg/kg

Acute Effects:	Dust in the eyes may cause irritation. Dust may irritate skin. High concentrations of dust may irritate throat and respiratory system.
Local Effects:	May have redness and pain in the eyes. Ingestion may cause nausea, vomiting and diarrhea.
Sensitization:	Not classified.
Chronic Effect:	Product contains a substance that can have a cumulative effect.
Carcinogenicity:	Not classified.
Mutagenicity:	No data is available to indicate that the product or any of its components present a greater than 0.1% of mutagenic or genotoxic.
Neurological Effects:	Not available.
Reproductive Effects:	Product contains a small amount of a substance that is suspected of damaging fertility or the unborn child.
Teratogenicity:	Not classified.

Section 12 – Ecological Information

Ecotoxicological Data

Components	Test Results
N-(n-butyl)-thiophosphoric triamide	EC50 Water flea (Daphnia magna): 290 mg/l 48 hours LC50 Fish: 1140 mg/l 96 hours NOEL Daphnia magna: 150 mg/l
N-Methyl-2-pyrrolidone	EC50 Daphnia magna: >1000 mg/l 24 hours
Urea	EC50 Daphnia magna: 3910 mg/l 48 hours
Sulfur	LC50 static - Fish
Potassium Sulphate	EC50 Daphnia magna: 890 mg/l 48 hours LC50 Fish: 510 mg/l 96 hours

Ecotoxicity: Not classified as environmentally hazardous.
Environmental Effects: This effect cannot be excluded in the event of unprofessional handling or disposal.
Degradability: Readily biodegradable.
Bioaccumulation: No data available.
Partition Coefficient: Not available.
Mobility: Product is soluble in water.

Section 13 – Disposal Considerations

Disposal: All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. Turf-Shark Fertilizer Inc. has no control over the management practices or manufacturing processes of parties handling or using this material. The information presented here pertains only to the product as shipped in its intended condition as described in SDS Section 3: Composition/Information on Ingredients. For unused and uncontaminated product, the preferred options include sending to a licensed, permitted: reclaimer, landfill or wastewater treatment system.

Section 14 – Transport Information

DOT: Not regulated.
IATA: Not regulated.
IMDG: Not regulated.
TDG: Not regulated.

Section 15 – Regulatory Information

US Federal Regulations This product is not hazardous according to OSHA 29CFR 1910.1200.
All components are on the US EPA TSCA Inventory List.
N-(n-butyl)-thiophosphoric triamide is subject to a Significant New Use Rule Codified in 40 CFR 721.6090.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
N-(n-butyl)-thiophosphoric triamide 1.0% One-Time Export Notification only.

US EPCRA (SARA Title III) Section 313 – Toxic Chemical: De minimis concentration
N-Methyl-2-pyrrolidone 1.0 %

US EPCRA (SARA Title III) Section 313 – Toxic Chemical: Listed substance
N-Methyl-2-pyrrolidone Listed.

CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)
None.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard Categories

Immediate Hazard – No	Delayed Hazard – No	Fire Hazard – No
Pressure Hazard – No	Reactivity Hazard - No	

Section 302 Extremely Hazardous Substance (40 CRF 355, App A)	No.
Section 311/312 (40 CFR 370)	No.
Drug Enforcement Administration (DEA) (21 CFR 1308-11-15)	Not controlled.

Canadian Regulations This product has been classified in accordance with the hazard criteria of the CPR and the SDS contain all the information required by the CPR.

WHMIS Non-controlled.

State Regulations WARNING: This product contains chemical(s) known to the State of California to cause birth defects or other reproductive harm.

US – California Proposition 65–Carcinogens & Reproductive Toxicity (CRT): Listed substance
N-Methyl-2-pyrrolidone Listed.

US – California Proposition 65 – CRT: Listed date/Developmental Toxin
N-Methyl-2-pyrrolidone Listed: June 15, 2001 Developmental Toxin.

US – Massachusetts RTK – Substance: Listed Substance
N-Methyl-2-pyrrolidone Listed.

US – New Jersey Community RTK (EHS Survey): Reportable Threshold
N-Methyl-2-pyrrolidone 500 lbs

US – New Jersey RTK – Substances: Listed Substance
N-Methyl-2-pyrrolidone Listed.

US – Pennsylvania RTK – Hazardous Substances: Listed Substance
N-Methyl-2-pyrrolidone Listed.

Section 16 – Other Information

WHMIS Ratings:	Health: 1	Flammability: 1	Physical Hazard: 0
NFPA Ratings:	Health: 1	Flammability: 1	Instability: 0

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Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Some conditions of product use are beyond the control of the supplier; it is assumed that the users of this material have been fully trained according to the requirements of all applicable legislation. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of this information contained in this document.