

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

FORMULATED BY:

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PRODUCT NAME: Turfworks 18-3-6 w Minors
CHEMICAL NAME: Inorganic/Organic Chemical Fertilizer Mixture
CHEMICAL FAMILY: N-P-K Mixed liquid blended fertilizer

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2. HAZARDS IDENTIFICATION SUMMARY

KEEP OUT OF REACH OF CHILDREN - CAUTION - May cause mild eye and skin irritation. Avoid contact with skin, eyes, open cuts, and sores. In case of contact, flush with water. Get medical attention for eyes. Nausea and vomiting could be expected upon large dose ingestion. The acute ingestive effects are described as nausea, chills, and diarrhea. Eye and skin contact with these products could cause irritation (particularly in sensitive persons), and respiratory irritation could be expected from the unprotected inhalation of fertilizer mists. Product users should avoid prolonged or repeated skin contact by wearing impervious gloves, long sleeve shirt, long pants, socks and rubber boots. Goggles for eye protection are recommended. Wash thoroughly after handling and using this product.



This product is a light amber liquid with a slight ammonia odor. Primary routes of entry are inhalation, eye contact and skin contact.

3. COMPOSITION, INFORMATION ON INGREDIENTS

N-K (NITROGEN-PHOSPHORUS-POTASSIUM) MIXED LIQUID BLENDED FERTILIZERS – No hazardous ingredient exceeds 1% of mixture.

<u>Chemical Ingredients:</u>	<u>Percentage of Weight:</u>	<u>CAS No.</u>
Urea Triazone	17.0%	7098-14-7
Urea	2.0%	7631-86-9
Potassium Acetate	49.0%	584-08-7
TKPP	7.0%	7320-34-5
EDTA Iron	0.8%	15708-41-5
EDTA Manganese	0.8%	15375-84-5
EDTA Zinc	0.6%	14025-21-9

4. FIRST AID MEASURES

If in eyes: Immediately rinse with water for 15 minutes
If on skin: Wash skin with soap and water
If swallowed: Rinse mouth with water and drink large quantity of water if conscious
If inhaled: Remove product or move person to fresh air

5. FIRE FIGHTING MEASURES

FLASH POINT (°F/Test Method): Aqueous solution, will not burn
FLAMMABLE LIMITS (LFL & UFL): Not applicable
EXTINGUISHING MEDIA: Use foam, CO2, dry chemical, or water

HAZARDOUS COMBUSTION PRODUCTS: May include but are not limited to oxides of carbon, oxides of nitrogen, ammonia, oxides of phosphorous
SPECIAL FIRE FIGHTING PROCEDURES: Remove container from fire area

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Stop leak, contain spill and absorb with soil or natural absorbents. Sweep up waste and place in container for disposal. Wash down area. Uncontaminated spilled material may be reused.

7. HANDLING AND STORAGE

HANDLING: Avoid eye contact and prolonged skin contact. Respiratory protection is normally not required. Sealed containers may develop pressure, open with caution. Wash hands thoroughly after handling the product.
STORAGE: Store in the original labeled container in a cool place away from direct sunlight. Keep separate from food and feed products and out of reach of children and animals. Avoid storage at temperatures of 110F or higher. Corrosive to steel, aluminum, brass. Use with stainless steel or PVC fittings. Product may stain unfinished wood, painted surfaces, or concrete.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Not normally required.
RESPIRATORY PROTECTION: Not normally required.
PERSONAL PROTECTIVE EQUIPMENT: Chemical goggles or shielded safety glasses and rubber or chemical resistant gloves

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Clear liquid with ammonia smell
SOLUBILITY: Appreciable
pH: 9.5
SPECIFIC GRAVITY (Water = 1): 1.21
VAPOR PRESSURE: not established
PERCENT VOLATILE (by volume): 45%
BULK DENSITY: 10.1 pounds / gallon
BOILING POINT: not established
EVAPORATION RATE: 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 for at least 2 years under normal conditions.
INCOMPATIBILITY: urea triazone will precipitate out of solution under acidic conditions.
HAZARDOUS DECOMPOSITION PRODUCTS: May decompose to release cyanuric acid, ammonia, HCN, NO
HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Oral LD₅₀(rat): not established
Acute Dermal LD₅₀(rabbit): not established
Eye Irritation (rabbit): not established
Inhalation LC₅₀(rat): not established
Skin Irritation (rabbit): not established
Skin Sensitization (guinea pig): not established
Carcinogenic Potential: None listed in OSHA, NTP, IARC, or ACGIH

12. ECOLOGICAL INFORMATION

Ecotoxicology: Due to the non-toxic classification of this product no negative impact on wildlife is expected.

Biodegradation: Oxidation and microorganisms.

13. DISPOSAL CONSIDERATIONS

Waste disposal: Contaminated absorbents and surplus product should be buried in accordance with any local legislation.

Container disposal: Wash thoroughly with water and soap prior to reuse.

14. TRANSPORT INFORMATION

DOT Shipping Description: NOT REGULATED BY USDOT.

U.S. Surface Freight Classification: FERTILIZING COMPOUNDS (MANUFACTURED FERTILIZERS), NOI; LIQUID (NMFC 68140, SUB 5, CLASS 50)

15. REGULATORY INFORMATION

NFPA & HMIS Hazard Ratings:

NFPA

1 Health
0 Flammability
0 Instability

HMIS

1 Health
0 Flammability
0 Reactivity
H PPE

SARA Hazard Notification/Reporting

SARA Title III Hazard Category: Immediate Y Fire N Sudden Release of Pressure N
Delayed N Reactive N

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

SARA, Title III, Section 313: Not listed

RCRA Waste Code: Not listed

16. OTHER

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