



## SAFETY DATA SHEET

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### MANUFACTURED FOR:

Carolina Eastern, Inc.  
347 McAllister Mill Road  
Scranton, SC 29591

**PRODUCT NAME:** TURF EXCELLENCE™ KELP 4-0-0  
**CHEMICAL NAME:** Inorganic/Organic Chemical Fertilizer Mixture  
**CHEMICAL FAMILY:** Micronutrient mixed liquid blended fertilizer

**In Case of Emergency:** Call CHEMTREC 800-424-9300  
**Date of Revision:** 03/24/23

### 2. HAZARDS IDENTIFICATION SUMMARY

**Hazard Classification:** Skin irritant, Category 2  
Eye irritant, Category 2A

**Signal Word:** "WARNING"

**Hazard Statements:**

H315-Causes skin irritation  
H320-Causes eye irritation  
H335-May cause respiratory irritation  
H333-May be harmful if inhaled  
H303-May be harmful if swallowed

**Precautionary Statements:**

(PREVENTION)

P260-Do not breathe mist/vapors/spray  
P264-Wash thoroughly after handling  
P270-Do not eat, drink or smoke when using this product  
P271-Use only outdoors in a well-ventilated area  
P273-Avoid release to the environment  
P280-Wear protective gloves / eye protection / face protection

(RESPONSE)

P301+P312- If swallowed, call a POISON CENTER or doctor if you feel unwell

P330-Rinse mouth

P302+P352-IF ON SKIN wash with plenty of soap and water

P305+P351+P338-IN IN EYES rinse cautiously with water for 20 minutes, remove contact lenses and continue rinsing

P337+P313-If eye irritation persists, get medical advice / attention

P362+P364-Take off contaminated clothing

**Precautionary Statements, Storage:**

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

P501-Dispose of container in accordance with local regulations





**3. COMPOSITION, INFORMATION ON INGREDIENTS**

MIXED LIQUID BLENDED FERTILIZERS – No hazardous ingredient exceeds 1% of mixture.

<b><u>Chemical Ingredients:</u></b>	<b><u>Percentage of Weight:</u></b>	<b><u>CAS No.</u></b>
Nitrogen	4	57-13-6
Kelp Extract	15	Mixture
Citric Acid	1	77-92-9
Iron	2.0	7788-63-0
Manganese	0.6	7785-87-7
Zinc	0.5	7733-02-0

**4. FIRST AID MEASURES**

- If in eyes:** Flush eyes with clean running water for at least 15 minutes. If irritation persists, get medical attention.
- If on skin:** Remove contaminated clothing. Wash thoroughly with soap and water. If irritation persists, or if rash develops, get medical attention.
- If swallowed:** If conscious, drink 1 or 2 glasses of water. Get medical attention. Never induce vomiting or give anything by mouth to an unconscious person.
- If inhaled:** Remove to fresh air. If irritation persists, get medical attention.

**5. FIRE FIGHTING MEASURES**

- FLASH POINT (°F/Test Method):** Not applicable
- FLAMMABLE LIMITS (LFL & UFL):** Not applicable
- EXTINGUISHING MEDIA:** Use medium appropriate to surrounding fire. Dry chemical, carbon dioxide, foam, water spray or fog.
- HAZARDOUS COMBUSTION PRODUCTS:** May include but not limited to oxides of carbon, hydrogen chloride, hydrogen fluoride, oxides of nitrogen, ammonia, oxides of carbon, hydrogen chloride, hydrogen fluoride, oxides of nitrogen, ammonia, oxides of sulfur, hydrogen sulfide.
- SPECIAL FIRE FIGHTING PROCEDURES:** Use water spray to cool containers exposed to fire. Remain upwind. Avoid breathing smoke. Wear self-contained breathing apparatus and full protective gear.
- UNUSUAL FIRE AND EXPLOSION HAZARDS:** None known.

**6. ACCIDENTAL RELEASE MEASURES**

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:**  
Avoid breathing mists. Absorb and sweep up spills immediately and transfer to suitable containers for possible land application according to label use or disposal. Check local, state and federal regulations for proper disposal.

**CAUTION:** Keep spills and cleaning runoff out of municipal sewers and open bodies of water.



**7. HANDLING AND STORAGE**

**HANDLING:** Avoid breathing fertilizer mists. Avoid prolonged or repeated skin contact. Avoid eye contact. Wash hands thoroughly after using this product and before eating, drinking, chewing gum, using tobacco or using the toilet.

**STORAGE:** Store in original containers only. Keep containers tightly closed when not in use. Store in a cool, dry well-ventilated area, preferably in a locked storage area away from children, feed, food products, and seed. Store at ambient temperatures. Do not contaminate water, food, or feed or disposal.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**ENGINEERING CONTROLS:** Not normally required.  
**RESPIRATORY PROTECTION:** Not normally required.  
**EYE PROTECTION:** Chemical goggles or shielded safety glasses.  
**SKIN PROTECTION:** Wear protective clothing: long-sleeved shirts and pants, hat, rubber boots with socks. Wear rubber or chemical-resistant gloves.  
**OSHA PEL 8 hr TWA** Not applicable  
**ACGIH TLV-TWA** No listings

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE AND ODOR:** Dark green liquid with marine odor  
**SOLUBILITY:** Appreciable  
**pH:** 2.5-3.0  
**SPECIFIC GRAVITY (Water = 1):** 1.10  
**VAPOR PRESSURE:** Not established  
**PERCENT VOLATILE (by volume):** Not applicable  
**BULK DENSITY:** 9.2 lbs / gallon  
**BOILING POINT:** Not established  
**EVAPORATION DATE:** 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  
**INCOMPATIBILITY:** Not known  
**HAZARDOUS DECOMPOSITION PRODUCTS:** SO<sub>2</sub> may evolve at high temperatures  
**HAZARDOUS POLYMERIZATION:** Will not occur.

**11. TOXICOLOGICAL INFORMATION**

**Acute Oral LD<sub>50</sub>(rat):** Not established  
**Eye Irritation (rabbit):** Not established  
**Inhalation LC<sub>50</sub>(rat):** Not established  
**Carcinogenic Potential:** None listed in OSHA, NTP, IARC, or ACGIH  
**Acute Dermal LD<sub>50</sub>(rabbit):** Not established  
**Skin Irritation (rabbit):** Not established  
**Skin Sensitization (guinea pig):** Not established

**12. ECOLOGICAL INFORMATION**

Drift or runoff may adversely affect non-target plants. Do not apply directly to water. Do not contaminate water when disposing of equipment wash water. Do not apply when weather conditions favor drift from target area.



**13. DISPOSAL CONSIDERATIONS**

Do not reuse container. Rinse container thoroughly, adding rinsate to mixing tank. Then offer for recycling at an ACRC site (go to <http://www.acrecycle.org/> for locations) or by reconditioning, or puncture and dispose of in a sanitary landfill, or other procedures approved by State and local authorities. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Avoid contaminating water by disposal of equipment wash waters or other product wastes.

**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		HMIS
1 Health	0 Least	1 Health
0 Flammability	1 Slight	0 Flammability
0 Instability	2 Moderate	0 Reactivity
	3 High	H PPE
	4 Severe	

**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**

**Disclaimer and Limitation of Liability:** This data sheet was developed from information on the constituent materials identified herein and does not relate to the use of such materials in combination with any other material of process. No warranty is expressed or implied with respect to the completeness or ongoing accuracy of the information contained in this data sheet, and Carolina Eastern, INC. disclaims all liability for reliance on such information. This data sheet is not a guarantee of safety. Users are responsible for ensuring that they have all current information necessary to safely use the product described by this data sheet for their specific purpose.

SDS 03/24/23