

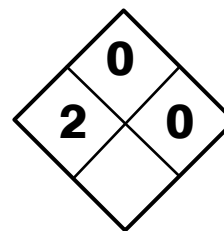
SAFETY DATA SHEET

Turf Fuel Helix Foliar Adjuvant

Date: 05/01/17

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME Turf Fuel Helix Foliar Adjuvant
DISTRIBUTOR Residex, LLC
ADDRESS 15415 Marquardt Ave • Santa Fe Springs, CA 90670
EMERGENCY INFOTRAC PHONE US 1-800-535-5053 / International 1-352-323-3500
CHEMICAL NAME Methylated vegetable oil, alcohol ethoxylate, tall oil fatty acid
CHEMICAL FAMILY Adjuvant
CHEMICAL FORMULA Mixture
PRODUCT USE Surfactant adjuvant
SECTION 1 NOTES None



SECTION 2: HAZARDOUS INGREDIENTS

GHS Ratings:

Toxicity Categories

Acute toxicity, oral, Category 5
Acute toxicity, dermal, Category 5
Acute toxicity (Inhalation), Category 4
Skin corrosion/ irritation, Category 2
Serious eye damage/ eye irritation, Category 2A

GHS PRECAUTIONS

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P261 Avoid breathing dust/fume/gas/mist/vapor/spray.
P264 Wash hands, face and other affected areas thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.



Signal Word: **Warning**

GHS HAZARDS

H303 May be harmful if swallowed
H313 May be harmful in contact with skin
H332 Harmful if inhaled
H315 Causes skin irritation
H319 Causes serious eye irritation

RESPONSE STATEMENTS

P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P302 + P352 IF ON SKIN: wash with plenty of soap and water.
P332 + P313 IF SKIN irritation occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy.
P337 + P313 IF eye irritation persists: Get medical advice/attention.

Storage and Disposal

P402 Store in a dry place.
P501 Dispose of contents/container to Local, State and Federal Regulations.

SECTION 3: HAZARDS IDENTIFICATION

INGREDIENT	CAS NO.	% WT
Methylated vegetable oil, alcohol ethoxylate, tall oil fatty acid	Mixture	100.00%

Product does not contain any pesticides or pest control agents.

CARCINOGENICITY

OSHA No ACGIH: No NTP: No IARC: No OTHER: No

SECTION 4: FIRST AID MEASURES

Have the product container with you when calling a poison control center or doctor, or going for treatment.

- EYE CONTACT -** Hold eyes open and rinse slowly and gently with water for several minutes. Remove contact lenses, if present and easy to do so then continue rinsing. Call a poison control center or doctor for further treatment advice.
- SKIN CONTACT -** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
- INGESTION -** Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.
- INHALATION -** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

SECTION 4 NOTES: FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: NPCC 1-800-222-1222 or call INFOTRAC 1-800-535-5053. Have the product label with you when calling a poison control center or doctor, or going for treatment.

SECTION 5: FIRE FIGHTING MEASURES

NFPA HAZARD CLASSIFICATION:

2	HEALTH
0	FLAMMABILITY
0	REACTIVITY
	OTHER

Hazard Scale

0	Least
1	Slight
2	Moderate
3	High
4	Severe

HMIS HAZARD RATING:

2	HEALTH
0	FLAMMABILITY
0	REACTIVITY
0	OTHER
H	PPE

- IN CASE OF FIRE:** Use medium appropriate to surrounding fire. Dry chemical, carbon dioxide, foam, water spray or fog.
- SPECIAL FIRE FIGHTING PROCEDURES:** Evacuate area and fight fire upwind a safe distance to avoid hazardous vapors and decomposition products. Fire exposed containers can build up pressure and should be kept cool with water spray if possible. Explosive vapor could form from ruptured containers. Dike and collect water used to fight fire to prevent environmental damage due to runoff. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff.
- UNUSUAL FIRE AND EXPLOSION HAZARDS:** Toxic fumes may be emitted in a fire situation.
- HAZARDOUS DECOMPOSITION PRODUCTS:** Normal combustion forms carbon dioxide, water vapor and may produce oxides of carbon, nitrogen and phosphorous.
- SECTION 5 NOTES:** As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Surround and absorb all spills. Material should be collected and disposed in proper manner. Dike the area to prevent spill from spreading. Soak up spill with a suitable absorbent such as clay, sawdust or kitty litter. Sweep up absorbed material and place in a chemical waste container for disposal. Wear suitable protective equipment.

SECTION 6 NOTES: CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

SECTION 7: HANDLING AND STORAGE

- HANDLING:** Wash hands after handling, before eating, drinking, chewing gum, using tobacco, or using the toilet. Avoid contact with eyes and contact with skin. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
- STORAGE:** Store in a cool well-ventilated place. Keep in original container tightly closed. Do not reuse empty container. Do not store with food, feed, or other material to be used or consumed by humans or animals. Do not contaminate water supplies. For optimal storage, store between 40° and 90° F.

SECTION 7 NOTES: None

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

VENTILATION: When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

RESPIRATORY PROTECTION: Proper ventilation is required when handling or using this product to keep exposure to airborne

contaminants below the exposure limit. Wear a NIOSH/MSHA approved dust mask or filter when vapors are expected to be generated above the permissible limit.

- EYE PROTECTION:** Wear chemical goggles or shielded safety glasses (ANSI Z87.1 or approved equivalent) when handling and mixing product. Contact lenses should not be worn when working with chemicals.
- SKIN PROTECTION:** Wear chemical resistant gloves such as Viton or barrier laminate, Coveralls over long-sleeved shirt, long pants and chemical resistant footwear plus socks. Chemical resistant headgear for overhead exposure. When exposed to product concentrate, wear a chemical resistant apron. Always refer to the label of the pesticide(s) in the tank mix and follow the most restrictive requirements.
- OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Eye protection, long sleeved shirt and long pants, shoes plus socks and chemical resistant gloves. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.
- WORK HYGIENIC PRACTICES:** Wash thoroughly with soap and water after handling product and before eating, drinking, or using tobacco products. Clean affected clothing, shoes, and protective equipment before reuse.

EXPOSURE GUIDELINES: OSHA PEL 8 hr TWA Not established ACGIH TLV-TWA Not established

SECTION 8 NOTES: None

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Clear to slightly hazy, gold	FLAMMABLE LIMITS IN AIR UPPER: (% BY VOLUME)	Not Established
		LOWER:	Not Established
ODOR:	Oily	VAPOR PRESSURE (mmHg):@	F: Not Established
ODOR THRESHOLD:	Not known		C: Not Established
PHYSICAL STATE:	Liquid		
pH AS SUPPLIED:	Not Established	VAPOR DENSITY (AIR = 1):@	F: Not Established
pH (Other):	Not Established		C: Not Established
INITIAL BOILING POINT:	F: Not Established C: Not Established	RELATIVE DENSITY: (Specific Gravity)	0.913 to 0.941 g/ml
		BULK DENSITY	7.62 lbs to 7.85 lbs / gal
BOILING POINT RANGE:	F: Not Established C: Not Established	EVAPORATION RATE:	Not Established
		BASIS (butyl acetate=1):	
MELTING POINT:	F: Unknown C: Unknown	SOLUBILITY IN WATER:	Dispersible
		PARTITION COEFFICIENT: (n-octanol/water):	Not Established
FREEZING POINT:	F: Not Established C: Not Established	AUTO-IGNITION TEMPERATURE:	F: Not Established
		DECOMPOSITION TEMPERATURE:	C: Not Established
FLASH POINT:	F: >200 C: >93.3	VISCOSITY:@	F: Not Established C: Not Established
METHOD USED:	PMCC		
FLAMMABILITY (solid, gas):	Not Established		

SECTION 9 NOTES:

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.

SECTION 10: STABILITY AND REACTIVITY

STABILITY:	Stable <u> X </u> Unstable <u> </u>
CONDITIONS TO AVOID (STABILITY):	None known
INCOMPATIBILITY (MATERIAL TO AVOID):	Strong oxidizing agents. Can react with metals, strong bases.
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:	Under fires conditions, oxides of carbon
HAZARDOUS POLYMERIZATION:	Will not occur
CONDITIONS TO AVOID (POLYMERIZATION):	None known
SECTION 10 NOTES:	None

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:	Not available	Acute Oral LD50(rat):	> 5000 mg/kg
		Acute Dermal LD50 (rabbit):	> 4470 mg/kg
MIXTURE TOXICITY	Not available	Eye Irritation (rabbit):	Not established
		Skin Irritation (rabbit):	Not established
		Inhalation LC50(rat):	Not known
COMPONENT TOXICITY		Skin Sensitization (guinea pig):	Not established
	Not available	Carcinogenic Potential:	None listed in OSHA, NTP, IARC, or ACGIH
SECTION 11 NOTES:	None		

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Ecotoxicity information is not available.

ECOTOXICITY: Not available

BIOACCUMULATIVE POTENTIAL: Not available

MOBILITY IN SOIL: Not available

OTHER ADVERSE EFFECTS: Not available

SECTION 12 NOTES: None

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Incinerate or dispose of in accordance with Local, State, and Federal Regulations. Commercially clean containers prior to disposal. Oil soaked rags should be disposed of properly.

CONTAINER DISPOSAL: Do not reuse product containers. Triple rinse (or equivalent), 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 by other procedures approved by local, state, and federal regulations.

RCRA HAZARD CLASS: Not listed

SECTION 13 NOTES: None

SECTION 14: TRANSPORT INFORMATION**U.S. DEPARTMENT OF TRANSPORTATION**

DOT Shipping Description: Not regulated by US DOT

U.S. Surface Freight Classification: Adhesives, Adjuvants, Spreaders Or Stickers (NMFC 4610; CLASS: 60) Consult appropriate ICAO/IATA and IMDG regulations for shipment requirements in the Air and Maritime shipping modes.

OTHER AGENCIES: None

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS Mixture not listed

TSCA (TOXIC SUBSTANCE CONTROL ACT): Not Regulated

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): Not Regulated

SARA TITLE III (SUPERFUND AMENDMENTS AND 311/312 HAZARD CATEGORIES

Acute Health Hazard	<u>YES</u>
Chronic Health Hazard	<u>No</u>
Fire Hazard	<u>No</u>
Sudden Release of Pressure Hazard	<u>No</u>
Reactive Hazard	<u>No</u>

313 REPORTABLE INGREDIENTS: Not listed

INTERNATIONAL REGULATIONS: None

CA Proposition 65: WARNING: This product does not contains chemicals known to State of California to cause cancer or birth defects or other reproductive harm.

SECTION 15 NOTES: None

SECTION 16: OTHER INFORMATION

OTHER INFORMATION: Replaces Issue from 02/05/2017

PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental/ Regulatory Services

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