

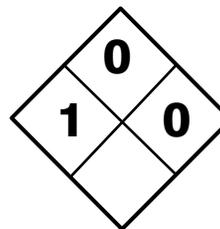
SAFETY DATA SHEET

Turf Fuel Halo 90 Foliar Adjuvant

Date: 05/01/17

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME Turf Fuel Halo 90 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 Alkylphenol ethoxylate, alcohol ethoxylate and tall oil fatty acid
CHEMICAL FAMILY Surfactant
CHEMICAL FORMULA Liquid
PRODUCT USE Agricultural surfactant
SECTION 1 NOTES None



SECTION 2: HAZARDOUS INGREDIENTS

GHS Ratings:

Toxicity Categories

Skin corrosion/ irritation, Category 3
Serious eye damage/ eye irritation, Category 2B
Aspiration hazard, Category 2

GHS PRECAUTIONS

P264 Wash hands, face and other affected areas thoroughly after handling.



Signal Word: Warning

GHS HAZARDS

H303 May be harmful if swallowed
H316 Causes mild skin irritation
H320 Causes eye irritation

RESPONSE STATEMENTS

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331 Do NOT induce vomiting.
P332 + P313 IF SKIN irritation occurs: Get medical advice/attention.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy.
P332 + P313 IF SKIN irritation occurs: Get medical advice/attention.

Storage and Disposal

P405 Store locked up.
P501 Dispose of contents/container to Local, State and Federal Regulations.

SECTION 3: HAZARDS IDENTIFICATION

INGREDIENT	CAS NO.	% WT
Alkylphenol ethoxylate alcohol ethoxylate and tall oil fatty acid	Mixture	90.00%
Constituents Ineffective as Spray Adjuvants	Mixture	10.00%

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

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:

1	HEALTH
0	FLAMMABILITY
0	REACTIVITY
0	OTHER

Hazard Scale

0	Least
1	Slight
2	Moderate
3	High
4	Severe

HMIS HAZARD RATING:

1	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:** No specific explosion hazards are identified or expected. Always fight fire with the implication that other volatile substances may be present.
- 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: WATER SPILL: Avoid discharge into natural waters. LAND SPILL: Avoid runoff onto any adjacent land.

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:	Light brown, clear to slightly cloudy	FLAMMABLE LIMITS IN AIR UPPER: (% BY VOLUME)	Not Available
		LOWER:	Not Available
ODOR:	Mild characteristic	VAPOR PRESSURE (mmHg):@	F: Not Available
ODOR THRESHOLD:	Not Available		C: Not Available
PHYSICAL STATE:	Liquid		
pH AS SUPPLIED:	Not Available	VAPOR DENSITY (AIR = 1):@	F: Not Available
pH (Other):	Not Available		C: Not Available
INITIAL BOILING POINT:	F: Not Available C: Not Available	RELATIVE DENSITY: (Specific Gravity)	1.205 to 1.241 g/ml
		BULK DENSITY	10.05 lbs to 10.36 lbs / g
BOILING POINT RANGE:	F: Not Available C: Not Available	EVAPORATION RATE: BASIS (butyl acetate=1):	
MELTING POINT:	F: Not Available C: Not Available	SOLUBILITY IN WATER:	Soluble
		PARTITION COEFFICIENT: (n-octanol/water):	Not Available
FREEZING POINT:	F: Not Available C: Not Available	AUTO-IGNITION TEMPERATURE:	F: Not Available
FLASH POINT:	F: >200 C: >93	DECOMPOSITION TEMPERATURE:	C: Not Available
		VISCOSITY:@	F: Not Available C: Not Available
METHOD USED:	PMCC		
FLAMMABILITY (solid, gas):	Not available		

SECTION 9 NOTES:

Note: 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 _____
CONDITIONS TO AVOID (STABILITY):	Avoid extremely high heat or open flame directly applied.
INCOMPATIBILITY (MATERIAL TO AVOID):	Do not use with aluminum equipment at temperatures above 49 °C (120 °F).
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:	None known except under fire conditions.
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):	>5000mg/kg (Rat)
		Acute Dermal LD50 (rabbit):	>5050mg/kg (Rabbit)
MIXTURE TOXICITY	Not established	Eye Irritation(rabbit):	8.0 out of 110 effects cleared in 7
		Skin Irritation(rabbit):	0.0 out of 8.0 based on a 72 hour
COMPONENT TOXICITY		Inhalation LC50(rat):	Not known
		Skin Sensitization (guinea pig):	Not available
		Carcinogenic Potential:	Not available
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: None

SECTION 12 NOTES: None

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Wastes may be disposed of on site or at an approved waste disposal facility. Do not reuse product containers.

CONTAINER DISPOSAL: Triple rinse (or equivalent), adding rinse water to spray tank. Offer container for recycling or dispose of in a sanitary landfill or by other procedures approved by appropriate authorities. Recycling decontaminated containers is the best option of container disposal. The (ACRC) operates the national recycling program. To contact your state and local ACRC recycler visit the ACRC web page at <http://www.acrecycle.org/>.

RCRA HAZARD CLASS: Not listed

SECTION 13 NOTES: Do not contaminate water, food or feed by storage or disposal.

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): Mixture not listed

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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