

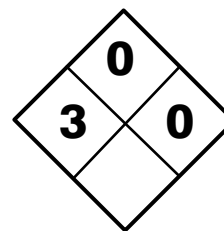
SAFETY DATA SHEET

Turf Fuel Tank pHix

Date: 05/01/17

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME Turf Fuel Tank pHix
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 2-Hydroxy – 1,2,3 – Propanetricarboxylic Acid
CHEMICAL FAMILY Adjuvant
CHEMICAL FORMULA Liquid
PRODUCT USE pH buffer plus indicators
SECTION 1 NOTES None



SECTION 2: HAZARDOUS INGREDIENTS

GHS Ratings:

Toxicity Categories

Skin corrosion/ irritation, Category 1B
Serious eye damage/ eye irritation, Category 1
Specific target organ toxicity, single exposure, Category 3
Corrosive to Metals, Category 1



Signal Word:

Danger

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.
P260 Do not breathe dust/fume/gas/mist/vapor/spray.
P264 Wash hands, face and other affected areas thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P234 Keep only in original container.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

GHS HAZARDS

H314 Causes severe skin burns and eye damage
H318 Causes serious eye damage
H335 May cause respiratory irritation.
H290 May be corrosive to metals

RESPONSE STATEMENTS

P302 + P352 IF ON SKIN: wash with plenty of soap and water.
P306 + P360 IF ON CLOTHING: Rinse Immediately contaminated CLOTHING and SKIN with plenty of water before
P363 Wash contaminated clothing before reuse.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P310 Immediately call a POISON CENTER or doctor/physician.
P321 Specific treatment is urgent (see Section 4 on this label).
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy.
P390 Absorb spillage to prevent material damage.

Storage and Disposal

P403 Store in a well-ventilated place.
P405 Store locked up.
P406 Store in corrosive resistant container with a resistant inner liner.
P501 Dispose of contents/container to Local, State and Federal Regulations.

SECTION 3: HAZARDS IDENTIFICATION

INGREDIENT	CAS NO.	% WT
Citric Acid	77-92-9	< 50%
Methyl Red	845-10-3	< 1%

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:

3	HEALTH
0	FLAMMABILITY
0	REACTIVITY
	OTHER

Hazard Scale

0	Least
1	Slight
2	Moderate
3	High
4	Severe

HMIS HAZARD RATING:

3	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: **SMALL SPILL:** Stop the source of the leak if safe to do so. Pick up spilled material with suitable absorbent material and place in appropriate container for disposal. The addition of sodium bicarbonate or lime (soda ash) will neutralize Citric Acid and precipitate calcium citrate. Test area of spill with pH paper to assure neutralization. Thoroughly wash the area after a spill cleanup with large quantities of water. Check local, state, and federal regulations for proper disposal. **LARGE SPILL:** Immediately dike around the spill area to prevent spreading. Stop the source of the leak if safe to do so. Pick up spilled material with suitable absorbent material and place in appropriate container for disposal. The addition of bicarbonate or lime (soda ash) will neutralize Citric Acid and precipitate calcium citrate. Test area of spill with pH paper to assure neutralization. Thoroughly wash the area after a spill clean-up with large quantities of water. Check local, state, and federal regulations for proper disposal.

SECTION 6 NOTES: **WATER SPILL:** Do not contaminate any body of water. **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 locked up away from unauthorized persons, children and animals. Store in original container only or a corrosive resistant container with a resistant inner liner. Store in a well-ventilated place. Keep container tightly closed. Do not contaminate other pesticides, fertilizers, food or feed. For optimal storage, store between 40° and 90° F.

SECTION 7 NOTES: After using this product remove clothing and launder separately before reuse, and promptly and thoroughly wash hands and exposed skin with

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: If use generates an aerosol mist or respiratory irritation, use NIOSH-approved dust/mist respirator.

WORK HYGIENIC PRACTICES: Keep out of reach of children. Avoid contact with skin, eyes, and clothing. Avoid breathing vapors. Wash thoroughly after handling product. Eye wash fountains and drench showers should be located within 100 feet or a 10 second walk from the work area per ANSI Z358.1-1990

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

SECTION 8 NOTES: If exposure occurs, see section 4 for acute exposure first aid.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Red liquid	FLAMMABLE LIMITS IN AIR UPPER: (% BY VOLUME)	Not established
		LOWER:	Not established
ODOR:	Mild odor	VAPOR PRESSURE (mmHg):@	F: Not established
ODOR THRESHOLD:	Not Available		C: Not established
PHYSICAL STATE:	Liquid		
pH AS SUPPLIED:	<1	VAPOR DENSITY (AIR = 1):@	F: Not established
pH (Other):	Not available		C: Not established
INITIAL BOILING POINT:	F: 212 C: 100	RELATIVE DENSITY: (Specific Gravity)	1.31 g/ml
		BULK DENSITY	10.9 lbs / gal
BOILING POINT RANGE:	F: Not established C: Not established	EVAPORATION RATE:	Not established
		BASIS (butyl acetate=1):	
MELTING POINT:	F: Not established C: Not established	SOLUBILITY IN WATER:	Soluble
FREEZING POINT:	F: Not established C: Not established	PARTITION COEFFICIENT: (n-octanol/water):	Not established
		AUTO-IGNITION TEMPERATURE:	F: Not established
FLASH POINT:	F: Does Not Flash C: Does Not Flash	DECOMPOSITION TEMPERATURE:	C: Not established
METHOD USED:	Not established	VISCOSITY:@	F: Not established C: Not established
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 X Unstable

CONDITIONS TO AVOID (STABILITY): Extremely high temperatures.

INCOMPATIBILITY (MATERIAL TO AVOID): Potentially explosive reaction with metal nitrates, strong bases and oxidizers. Citric Acid is incompatible with reducing agents. Citric Acid is corrosive to brass, copper, zinc, aluminum and

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Heating to dryness may cause the release of carbon dioxide and carbon monoxide gas.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID (POLYMERIZATION): Heat, moisture and incompatible materials.

SECTION 10 NOTES: None

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:	Not established	Acute Oral LD50(rat):	Not established
		Acute Dermal LD50 (rabbit):	Not established
MIXTURE TOXICITY	Not established	Eye Irritation rabbit):	Not established
		Skin Irritation(rabbit):	Not established
COMPONENT TOXICITY		Inhalation LC50(rat):	Not known
		Skin Sensitization (guinea pig):	Not established
	Not established	Carcinogenic Potential:	Not established
SECTION 11 NOTES:	None		

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Citric Acid biodegrades rapidly. It is dangerous to aquatic life in high concentrations. Do not use near water. Not for aquatic use. Do not contaminate water when cleaning equipment or disposing of equipment wash waters.

ECOTOXICITY: Toxicity to fish mortality LC50 – *Leuciscus idus melanotus* – 440 mg/l – 48 h / Method: OECD Test Guideline 203. Toxicity to daphnia and other aquatic invertebrates static test – *Daphnia magna* (water flea) – 1,535 mg/l – 24 h.

BIOACCUMULATIVE POTENTIAL: Not available

MOBILITY IN SOIL: Product is biodegradable and readily absorbed into soil.

OTHER ADVERSE EFFECTS: Not available

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: UN 3265. Corrosive Liquids, acidic, organic, N.O.S., (Contains citric acid), 8, II, Limited Quantities, ERG# 151, §173.154(b2) IF inner packaging is less than 66 lbs(30kg) then Limited Quantity label must be placed shipping container.

U.S. Surface Freight Classification: NMFC 68140, Sub 6

OTHER AGENCIES: (AIR): UN3265, Corrosive Liquid, acidic, organic, n.o.s. (Citric Acid), 8, PGII, Special Provisions A97 / (IMO / IMDG): UN3265, Corrosive Liquid, acidic, organic, n.o.s. (citric acid), 8, PG II, Limited Quantity 1L, EmS: F-A, S-B - Special Provisions: 223, 24, 944

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: Date of Preparation: 05/01/2017

PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental/ Regulatory Services

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