

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Huma Health
Product Number: FFN-00043
Product Use: Soil Conditioner
Supplier Information: Planet Turf
10315 E. Holman Avenue
Spokane, WA 99206
1-509-921-5421

Emergency Number: 1-800-535-5053 INFOTRAC

2. HAZARDS IDENTIFICATION**CLASSIFICATION****HEALTH HAZARDS:**

Serious eye damage/eye irritation
Skin irritation

Category 1A
Category 1

SIGNAL WORD:

DANGER

HAZARD STATEMENTS:

Causes skin irritation and serious eye irritation. May cause respiratory irritation.

**PRECAUTIONARY STATEMENTS**

Avoid breathing dust/fume/gas/mist/vapors/spray. Wash skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/eye protection/face protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

IMMEDIATELY CALL A POISON CENTER or doctor/physician. Specific treatment – see supplemental first aid instructions in Section 4.

Store locked up in a well-ventilated place. Dispose of contents/container in an approved waste disposal plant.

3. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENTS	CAS NO.	% BY WEIGHT
Humic Acid	1415-93-6	6.0
Other ingredients	Proprietary	94.0

If Chemical Name/CAS No is "Proprietary" and/or Weight % is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES**First Aid Measures:**

General Advice: Immediate medical attention is required. Provide this SDS to medical personnel for treatment.

If in Eyes: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical attention/advice.

If on Skin or Clothing: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Seek immediate medical attention/advice.

If Inhaled: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, (trained personnel should) give oxygen. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.

If Swallowed: Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

Most important symptoms and effects: Erythema (skin redness). Burning. May cause blindness. Coughing and/ or wheezing.

Recommendations for immediate medical care and special treatment, if needed:

Note to first aider: Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.

Note to Physician: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Use extinguishing media suitable for surrounding materials. Dry chemical, carbon dioxide, foam, water spray or fog. Note: use of water spray may be inefficient when fighting fire.

Specific Hazards Arising from the substance/mixture during a fire: Some oxidizers may ignite combustibles (wood, paper, oil, clothing, etc.) Uniform Fire Code: Corrosive: Other-Liquid. Under fire conditions may produce oxides of carbon.

Protective equipment and precautions for firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Stop leak if you can do it without risk. Wear appropriate protective gear for the situation. See Personal Protection information in Section 8.

Other Information: DO NOT GET WATER INSIDE CONTAINERS.

Environmental Precautions: Prevent material from entering public sewer systems or any waterways. Do not flush to drain.

Methods for Containment and Clean-Up: Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Pick up and transfer to properly labeled containers. Keep in suitable, closed containers for disposal. See Section 13: DISPOSAL CONSIDERATIONS for more information.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Handling: Avoid contact with eyes and skin. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation and in closed systems. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

Conditions for safe storage, including any incompatibilities

Storage: Keep container tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Store locked up. Keep out of reach of children. Store away from other materials.

Incompatible Materials: Oxidizing agents; bases; acids.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines:

Component	OSHA		ACGIH		Unit
	TWA	STEL	TWA	STEL	
Potassium hydroxide (1310-58-3)	2* - C	NE	2 - C	NE	mg/m ³
Hydrogen chloride (7647-01-0)	5 - C/ 7 - C	NE	NE	NE	ppm / mg/m ³

C = Ceiling

*Vacated by OSHA

NE = Not Established

Engineering Controls:

Where engineering controls are indicated by specific use conditions or a potential for excessive exposure, use local exhaust ventilation at the point of generation. An emergency shower, eyewash stations or water supply should be readily accessible to the work area.

Personal Protective Equipment:

Eye/Face Protection: To avoid contact with eyes, wear chemical face shield. An emergency eyewash or water supply should be readily accessible to the work area.

Skin and Body Protection: Wear protective gloves. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Wear long-sleeved shirt, long pants, socks plus shoes and chemical resistant apron.

Respiratory Protection: Not normally required. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General Hygiene Considerations: Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material: 1) Do not store, use and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored. 2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics or using the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Dark blackish-brown liquid
Odor:	Slight odor
Odor threshold:	No data available
pH:	13.3
Melting point/freezing point:	572° F (300° C)
Initial boiling point and boiling range	212° F (100° C)
Flash point:	No data available
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Upper/lower flammability or explosive limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Relative density:	1.03
Solubility(ies):	No data available
Partition coefficient: n-octanol/water:	No data available
Autoignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available

Note: Physical data are typical values, but may vary from sample to sample. A typical value should not be construed as a guaranteed analysis or as a specification.

10. STABILITY AND REACTIVITY**Reactivity:**

Chemical Stability: This material is stable under normal handling and storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Exposure to air or moisture over prolonged periods.

Incompatible Materials: Acids; bases; oxidizing agents.

Hazardous Decomposition Products: Under fire conditions may produce gases such as oxides of carbon.

11. TOXICOLOGICAL INFORMATION

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Potential Health Effects:

Likely Routes of Exposure: Inhalation, ingestion, eye and skin contact.

Eye Contact: Specific test data for the substance or mixture is not available. Causes burns. (based on components). Corrosive to the eyes and may cause severe damage including blindness.

Skin Contact: Specific test data for the substance or mixture is not available. Corrosive. (based on components). Causes burns.

Inhalation: Specific test data for the substance or mixture is not available. Corrosive by inhalation. (based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal.

Ingestion: Specific test data for the substance or mixture is not available. Causes burns. (based on components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Medical Conditions Aggravated by Exposure: Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin disease.

SAFETY DATA SHEET

Huma Health

Toxicological Data – Component Information:

Component	Oral LD ₅₀	Dermal LD ₅₀	Inhalation LC ₅₀
Hydrogen chloride (7647-01-0)	=700 mg/kg (rat)	>5,1010 mg/kg (rabbit)	=3,124 ppm (Rat) 1hr
Potassium hydroxide (1310-58-3)	=214 mg/kg (rat)		

Subchronic (Target Organ) Effects: No data available.

Carcinogenicity / Chronic Health Effects: No data available.

Reproductive Toxicity: No data available.

Developmental Toxicity: No data available.

Germ Cell Mutagenicity: No data available.

The following values are calculated based on Section 3 of this SDS:

ATEmix (oral)

6,737.00 mg/kg

ATEmix (inhalation-dust/mist)

43.57 mg/l

ATEmix (inhalation-vapor)

261.00 ATEmix

Description of Symptoms: Please see Section 4 of this SDS for symptoms.

Assessment Carcinogenicity:

Component	Regulatory Agency Listing As Carcinogen			
	ACGIH	IARC	NTP	OSHA
Hydrogen chloride (7647-01-0)	NDA	3	NDA	NDA

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Harmful to aquatic life.

Component Information:

Component	Toxicity to Fish
Potassium hydroxide (1310-58-3)	96 h LC50:
Hydrogen chloride (7647-01-0)	NDA

No data available

Persistence and Degradability: No data available

Bioaccumulation: No data available

Mobility in Soil: No data available

Other Adverse Effects: No data available

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose of waste in accordance with local, state and federal regulations.

Container Disposal Method: Dispose of container in accordance with local, state and federal regulations.

14. TRANSPORTATION INFORMATION

Follow the precautions indicated in Section 7: HANDLING AND STORAGE of this SDS.

DOT:

UN 1814 Corrosive liquid, basic, organic, (potassium hydroxide), 8, III

IMDG:

UN 1814 Corrosive liquid, basic, organic, (potassium hydroxide), 8, III

IATA:

UN 1814 Corrosive liquid, basic, organic, (potassium hydroxide), 8, III

15. REGULATORY INFORMATION**U.S. FEDERAL REGULATIONS**

TSCA Inventory: Listed

SARA Hazard Notification/Reporting:**Hazard Categories Under Criteria of SARA Title III Rules (40 CFR Part 370.66):**

Immediate

Section 313 Toxic Chemical(s):

Hydrogen Chloride (CAS No. 7647-01-0)

Potassium Hydroxide (CAS No. 1310-58-3)

Reportable Quantity (RQ) under U.S. CERCLA:

Hydrogen Chloride (CAS No. 7647-01-0), 5,000 pounds

Potassium Hydroxide (CAS No. 1310-58-3), 1,000 pounds

RCRA Waste Code:

Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

State Information:

Other state regulations may apply. Check individual state requirements.

California Proposition 65: Not Listed.

16. OTHER INFORMATION**National Fire Protection Association (NFPA) Hazard Rating:**

Health Hazards: 3 **Flammability:** 1 **Instability:** 0 **Special Hazards:** ND

HMIS

Health Hazards: 3 **Flammability:** **Physical Hazards:** **Personal Protection** X

Hazards Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Key to abbreviations:

ACGIH = American Conference of Governmental Industrial Hygiene

ATE = Acute Toxicity Estimates

IARC = International Agency for Research on Cancer

N/A = Not applicable

ND = Not determined

NDA = No data available

NE = Not Established

NTP = National Toxicology Program

OSHA = Occupational Safety and Health Administration

STEL = Short Term Exposure Limits

TWA = Time Weighted Average

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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