



# SAFETY DATA SHEET

This SDS complies with REACH 1907/2006 and 2001/58/EC, GHS REVISION 5, OSHA 29CFR 1910.1200

## Section 1: Chemical Product and Company Identification

### MANUFACTURER'S NAME

HydroGro  
7201 East Camelback Road, Suite 295  
Scottsdale, AZ 85251 USA

### EMERGENCY TELEPHONE

Chemtrec U.S.-Canada: 800-424-9300  
Chemtrec International: 703-527-3887  
Information: (480) 248-9336  
Fax: (480) 248-9337  
Sales@hydrogro.com

Safety Data Sheet Competent Person: Customer Service

DATE PREPARED: January 3, 2017

**REVISION DATE: January 3, 2017**

PRODUCT NAME: **HydroFuze Fe (Green)**

FORMULA: Preparation/Mixture

PRODUCT USE: Supplement for professionally maintained golf courses, sport turf, lawn and landscaping

## Section 2: Hazards Identification



### GHS Hazard Class

Skin Corrosion/Irritation – Category 2  
Serious eye damage/irritation – Category 2A  
Specific target organ toxicity - Single exposure – Category 3  
Warning  
H315: Causes skin irritation  
H319: Causes serious eye irritation  
H335: May cause respiratory irritation

### Signal word:

### Hazard Statement:

### Precautionary Statements:

Prevention P261: Avoid breathing dust/fume/gas/mist/vapors/spray  
P264: Wash hands thoroughly after handling  
P281: Use personal protective equipment as required.  
P270: Do not eat, drink or smoke when using this product.  
Response P302+P352: IF ON SKIN: Wash with plenty of water for at least 15 mins. Get medical advice if irritation persists  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing  
P312: Call a POISON CENTER/doctor if you feel unwell  
Storage P403+P233: Store in a well-ventilated place. Keep container tightly closed  
P405: Store locked up.  
Disposal P501: Dispose of contents/container in accordance with waste disposal requirements of your country, state, or local authorities

Hazards not otherwise classified (HNOC) or not covered by GHS - None

### HAZARD CLASSIFICATION:

Not classified as hazardous based on IATA, IMDG, and DOT.

### FIRE AND EXPLOSION:

Not considered flammable or combustible, but this product will burn if involved in a fire.

### POTENTIAL HEALTH EFFECTS:

<1 % of mixture consists of ingredients of unknown acute toxicity

### APPEARANCE:

Red viscous liquid

### NFPA Rating:

Component	Health (Blue)	Flammability (Red)	Reactivity (Yellow)	Special (White)
HydroFuze Fe	1	0	0	----



### Section 3: Composition, Information on Ingredients

PRODUCT COMPOSITION	APPROX %	CAS NO.	EC NUMBER	CANADA DSL
Yellow Iron Oxide	< 70	20344-49-4	243-746-3	Y

Some items on this SDS may be designated as trade secrets (TS). Bonafide requests for disclosure of trade secret information to medical personnel must be made in accordance with the provisions contained in 29 CFR 1910.1200 I 1-13.

### Section 4: First Aid Measures

#### Description of First Aid Measures

Inhalation	Remove to fresh air. If not breathing, provide CPR (cardio pulmonary resuscitation). Get immediate medical attention.
Skin Contact	Immediately wash skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing.
Eye Contact	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation persists.
Ingestion	Do not induce vomiting. Never give anything to an unconscious person. Get immediate medical attention.

#### Most important symptoms and effects, both acute and delayed

Symptoms/Injuries after Inhalation	May cause respiratory tract irritation. Symptoms may include coughing and/or trouble breathing.
Symptoms/Injuries after Skin Contact	May cause skin irritation. Symptoms may include redness, drying, defatting, and cracking of the skin.
Symptoms/Injuries after Eye Contact	Causes eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
Symptoms/Injuries after Ingestion	May be harmful if swallowed.

#### Indication of any immediate medical attention and special treatment needed

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately.

### Section 5: Fire-fighting Measures

<b>Suitable extinguishing media</b>	Use foam, dry chemical, carbon dioxide, or water spray.
<b>Special hazards arising from the substance or mixture</b>	Release of iron oxides when burned
<b>Protective actions fire-fighters</b>	Wear standard protective equipment and self contained breathing apparatus for firefighting if necessary.
<b>Further information</b>	No data available

### Section 6: Accidental Release Measures

#### Personal precautions, protective equipment, and emergency procedures

Wear proper personal protective equipment. Avoid breathing dust. Avoid excessive dust production.

#### Environmental precautions

Prevent further spillage if safe to do so. Prevent spills or contaminated rinse water from entering sewers or watercourses.

#### Methods and materials for containment and cleaning up

In case of small spills, use appropriate tools to put the spilled material in a plastic container. Dispose of according to the requirements of your country, state, or local authorities.



In case of large spills, use a shovel to put the material into a plastic container. Dispose of according to the requirements of your country, state, or local authorities.

**Reference to other Sections** For personal protection reference section 8. For disposal reference section 13.

## Section 7: Handling and Storage

### Precautions for safe handling

- Use only with adequate ventilation.
- Do not inhale dust.
- Avoid formation of dust.
- Further processing may produce combustible dust
- Keep out of reach of children.
- Wear proper protective equipment when handling this material.
- Avoid contact with skin, eyes, or clothing.
- Wash hands and face after handling this material.
- A plastic container should be used for disposal.
- For precautions see section 2.

### Conditions for safe storage, including any incompatibilities

- Store upright in a cool, dry place.
- Keep container closed when not in use.
- Keep away from heat, sparks, flame, direct sunlight, and other possible sources of ignition.
- Do not store with acid, metallic oxide, amines, and combustible materials.
- Utilize chemical segregation.
- Follow all applicable local regulations for handling and storage.

### Specific uses

This product is intended to be used as a supplement for professionally maintained golf courses, sport turf, landscaping and specialty crops.

## Section 8: Exposure Controls/Personal Protection

### Control Parameters

PRODUCT COMPOSITION	ACGIH TLV	OSHA PEL	NIOSH REL
Yellow Iron Oxide		TWA 10 mg/m <sup>3</sup>	

### Exposure controls

VENTILATION:

Always provide good general, mechanical room ventilation where this chemical/material is used.

SPECIAL VENTILATION CONTROLS:

None

RESPIRATORY PROTECTION:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or the CEN European Standards (EU). Use a NIOSH/MSHA or European Standard (EN) approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

PROTECTIVE GLOVES:

Neoprene, butyl, or nitrile rubber gloves are recommended.

EYE PROTECTION:

Recommend eye protection using safety glasses or goggles.

SKIN PROTECTION:

Suitable protective clothing to prevent skin contact

WORK/HYGIENE PRACTICES:

Avoid breathing dust. Avoid contact with eyes. Wash hands after handling.

OTHER EQUIPMENT:

Make safety shower, eyewash stations, and hand washing equipment available in the work area.



## Section 9: Physical and Chemical Properties

	PRODUCT CRITERIA
APPEARANCE - COLOR:	Green
PHYSICAL STATE:	Liquid
ODOR:	None
ODOR THRESHOLD	No data available
PH	No data available
MELTING POINT/FREEZING POINT:	No data available
INITIAL BOILING POINT AND BOILING RANGE:	No data available
FLASH POINT:	No data available
EVAPORATION RATE:	No data available
FLAMMABILITY (Solid, gas)	Not flammable
UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS	Not Measured
VAPOR PRESSURE	No data available
VAPOR DENSITY (AIR = 1)	No data available
RELATIVE DENSITY (@25 °C):	1.60
SOLUBILITY (IES)	Soluble in water
OXIDIZING PROPERTIES	No data available
PARTITION COEFFICIENT: n-octanol/water	No data available
AUTO IGNITION TEMPERATURE	No data available
DECOMPOSITION TEMPERATURE	No data available
VISCOSITY	No data available

## Section 10: Stability and Reactivity

Reactivity:	Reacts with strong acids and strong oxidizers.
Chemical Stability:	Stable under recommended conditions.
Possibility of Hazardous Reactions:	Will not occur under normal temperatures and pressures.
Conditions to Avoid:	None
Incompatibility (Materials to avoid):	Chlorofomates, peroxides, strong acid, strong oxidizers.
Hazardous Decomposition Products:	Decomposition products include iron oxides.

## Section 11: Toxicological Information

Information on likely routes of exposure:

Inhalation	May cause irritation to the respiratory system.
Skin Contact	Causes skin irritation
Eye Contact	Causes eye irritation
Ingestion	Do not swallow
Symptoms related to the physical, chemical and toxicological characteristics	May cause respiratory irritation.

Information on toxicological effects

Acute Toxicity

Product / Ingredient name	Toxicity Criteria	Toxicity Information
Yellow Iron Oxide	LD50 Oral Rat	>5000 mg/kg

Skin corrosion/irritation                      May cause skin irritation



Serious eye damage/eye irritation	May cause eye irritation
Respiratory or skin sensitization	
Respiratory sensitization	Not determined
Skin sensitization	This product is not expected to cause skin sensitization
Germ cell mutagenicity	The Registry of Toxic Effects of Chemical Substances (RTECS) contains mutation data for this substance
Carcinogenicity	No classification data on carcinogenic properties of this material is available from the EPA, IARC, ACGIH, NTP, or OSHA
OSHA specifically regulated substances (29 CSR 1910.1001 –1050)	Not listed
US national toxicology program (NTP) report on carcinogens	Not available
Reproductive toxicity	No effects known
Specific organ toxicity- single exposure	No known significant effects or critical hazards
Specific target organ toxicity repeated exposure	Not classified
Aspiration hazard	No effects known

## Section 12: Ecological Information

Chemical Constituent	Result	Species	Exposure
Yellow Iron Oxide	Acute fish toxicity	Golden Orfe	=> 1000mg/l
Yellow Iron Oxide	Acute Toxicity for Daphnia	Daphnia magna	= > 10,000 mg/l

Aquatic Toxicity	No further relevant information available
Persistence and degradability	No further relevant information available
Bioaccumulative potential:	No further relevant information available.
Mobility in soil:	No further relevant information available
PBT and vPvB assessment:	PBT/vPvB assessment not available as chemical assessment not required/not conducted
Other adverse effects:	No information is available



## Section 13: Disposal Considerations

**Waste from residues/unused products:** Follow the waste disposal requirements of your country, state, or local authorities.

**Contaminated packaging:** Contaminated packaging material should be disposed of as stated above for residues and unused product.

**Rinsate:** Do not dispose of rinse water containing product in a sanitary sewer system or stormwater drainage system.

## Section 14: Transport Information

<b><u>DOT TRANSPORT:</u></b>		Not Regulated
<b><u>ADR = International Carriage of Dangerous Goods by Road</u></b>		Not Regulated
<b><u>SEA TRANSPORT:</u></b>	IMDG	Not Regulated
<b><u>AIR TRANSPORT:</u></b>	IATA/ICAO	Not Regulated

## Section 15: Regulatory Information

### TOXIC SUBSTANCE CONTROL ACT (TSCA) STATUS:

This product is in compliance with rules, regulations, and orders of TSCA. All components are either listed on the TSCA inventory or are considered exempt.

### SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III SECTION 313 SUPPLIER NOTIFICATION:

This regulation requires submission of annual reports of toxic chemical(s) that appear in section 313 of the Emergency Planning and Community Right To Know Act of 1986 and 40 CFR 372. This information must be included in all SDS's that are copied and distributed for the material.

The Section 313 toxic chemicals contained in this product are: None

### CALIFORNIA PROPOSITION 65:

This regulation requires a warning for California Proposition 65 chemical(s) under the statute.

The California proposition 65 chemical(s) contained in this product are: None

### STATE RIGHT-TO-KNOW TOXIC SUBSTANCE OR HAZARDOUS SUBSTANCE LIST:

Massachusetts's hazardous substance(s):	Not listed
New Jersey	Not listed
Pennsylvania	Not listed

### CANADA:

WHMIS-2015: This SDS is in compliance with WHMIS 2015 (HPR / new HPA).

### EUROPEAN UNION:

This product has been reviewed for compliance with the following European Community Directives: REACH 1907/2006; Regulation (EC) No 1272/2008 on classification, labeling, and packaging (CLP) of substances and mixtures.

## Section 16: Other Information

Initial issue date:	January 3, 2017
Final revision date:	January 3, 2017
Revision Number:	0
Revision explanation	Initial version
Information Sources:	RTECS, ECHA, REACH, OSHA 29CFR 1910.1200



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