

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 EMERGENCY TELEPHONE

HydroGro Chemtrec U.S.-Canada: 800-424-9300 7815 South Hardy Drive Chemtrec International: 703-527-3887 Tempe, AZ 85284 USA Information: (480) 248-9336 (480) 248-9337

Safety Data Sheet Competent Person: Customer Service Sales@hydrogro.com

DATE PREPARED: March 1, 2023 **REVISION DATE: March 1, 2023**

HydroFuze Iron (Fe) Manganese (Mn) PRODUCT NAME:

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

Signal word: Warning

Hazard Statement: H315: Causes skin irritation

H319: Causes serious eye irritation

H335: May cause respiratory irritation

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.

P501: Dispose of contents/container in accordance with waste disposal requirements of your country, Disposal

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

APPEAR ANCE: Red viscous liquid

NFPA Rating:

Component	Health	Flammability	Reactivity	Special
	(Blue)	(Red)	(Yellow)	(White)
HydroFuze Fe + Mn	2	0	0	

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Section 3: Composition, Information on Ingredients

PRODUCT COMPOSITION	APPROX %	CAS NO.	EC NUMBER	CANADA DSL
Red Iron Oxide	25	1309-37-1	215-168-2	Y
Manganese Carbonate	25	598-62-9	209-942-9	Y
Water	35			

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

Suitable extinguishing media Use foam, dry chemical, carbon dioxide, or water spray.

Special hazards arising from the substance or mixture Release of iron oxides when burned

Protective actions fire-fighters Wear standard protective equipment and self contained breathing

apparatus for firefighting if necessary.

Further information 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 authoritie

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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
Ferric Oxide	TWA 5 mg/m ³	TWA 10 mg/m ³	TWA 5 mg/m ³
Manganese Carbonate	TWA 5 mg/m ³	TWA 5 mg/m ³	

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.

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Section 9: Physical and Chemical Properties

	PRODUCT CRITERIA
APPEARANCE - COLOR:	Red
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):	1.65 cc
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

GHS Required Criteria	Toxicity Criteria	Toxicity Information	Comments	Chemical Constituent
Acute Toxicity		Data not available		
Skin Corrosion/Irritation	Mild skin irritant - redness and moderate irritation on humans		Category 2	Fe2O3, MnCO3
Serious Eye Damage / Eye Irritation	Eye irritant - in humans		Category 2A	Fe2O3, MnCO3
Respiratory or Skin Sensitization	Data not available			
Germ Cell Mutagenicity	Data not available			
Carcinogenicity	NTP	Not listed		
	IARC	Not listed		
	OSHA	Not listed		
Reproductive Toxicity	Data not available			
STOT Single Exposure	May cause respiratory irritation (respiratory tract irritation) – coughing was seen in humans		Category 3 Respiratory tract irritation	Fe2O3, MnCO3
STOT – Repeated Exposure	Data not available			
Aspiration Hazard		Data not available		

STOT = Specific Target Organ Toxicity

Section 12: Ecological Information

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

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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

DOT TRANSPORT: Not Regulated

ADR = International Carriage of Dangerous Goods by Road Not Regulated

SEA TRANSPORT: IMDG Not Regulated

AIR TRANSPORT: 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):

New Jersey

Not listed
Pennsylvania

Not listed
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: March 1, 2023 Final revision date: March 11, 2023

Revision Number:

Revision explanation Address change

Information Sources: RTECS, ECHA, REACH, OSHA 29CFR 1910.1200

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