

SAFETY DATA SHEET

Chemtrec U.S.-Canada:

Chemtrec International:

Information:

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Section 1: Chemical Product and Company Identification

MANUFACTURER'S NAME **EMERGENCY TELEPHONE**

HydroGro 7815 South Hardy Drive

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Safety Data Sheet Competent Person: Customer Service

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DATE PREPARED: December 16, 2016 **REVISION DATE: March 10, 2021**

AgroFuze Manganese (Mn) PRODUCT NAME:

Preparation/Mixture FORMULA:

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

Section 2: Hazards Identification

GHS Hazard Class

Physical Hazards: None

Health Hazards: Specific target organ toxicity, Category 1

Single exposure, Respiratory tract irritation

Specific target organ toxicity, Category 1

Repeated exposure,

Label elements:



Signal word: Danger

Hazard Statement: H370: Causes damage to organs.

H372: Causes damage to organs through prolonged or repeated exposure.

Precautionary Statements: Prevention P260: Do not breathe dust/fume/gas/mist/vapors/spray.

P264: Wash skin thoroughly after handling

P270: Do not eat, drink, or smoke when using this product

P307 + P311: IF exposed: call a POISON CENTER or doctor/physician. Response

P314: Get medical advice/attention if you feel unwell.

P321:

P405: Store locked up Storage

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

country, state, or local authorities.

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

HAZARD CLASSIFICATION: DOT: Hazardous, IMDG & IATA: Not applicable

FIRE AND EXPLOSION: Not Considered flammable or combustible.

POTENTIAL HEALTH EFFECTS: <1 % of mixture consists of ingredients of unknown acute toxicity

APPEARANCE: Brown concentrate



Component	Health (Blue)	Flammability (Red)	Reactivity (Yellow)	Special (White)
AgroFuze Mn	0	0	0	

Section 3: Composition, Information on Ingredients

PRODUCT COMPOSITION	APPROX %	CAS NO.	EC NUMBER	CANADA DSL
Manganese Carbonate	<60	598-62-9	209-942-9	Y
Water	< 40	7732-18-5	231-791-2	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 If inhaled, remove to fresh air. Get medical attention immediately. Keep patient

warm. Seek immediate medical advice

Skin Contact Wash with soap and water. Seek immediate medical advice

Eye Contact Immediately flush eyes with plenty of water for at least 15 minutes, keeping eyelids open check for and remove any contact lenses. Then consult a doctor

Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Seek medical treatment

Most important symptoms and effects, both acute and delayed

Symptoms/Injuries after Inhalation May give off gas, vapor or dust that is very irritating or corrosive to the respiratory

system. Exposure to decomposition products may cause a health hazard. Serious

effects may be delayed following exposure.

Symptoms/Injuries after Skin Contact Causes skin irritation
Symptoms/Injuries after Eye Contact Causes serious eye irritation

Symptoms/Injuries after Ingestion Drink lots of water. Call doctor immediately.

Indication of any immediate medical attention and special treatment needed

No further relevant information available

General Information

Ingestion

Take off all contaminated clothing immediately. If you feel unwell, seek medical advice (show the label where possible. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

Section 5: Fire-fighting Measures

Suitable extinguishing media

Unsuitable extinguishing media Special hazards arising from the substance or mixture

Protective actions fire-fighters

Firefighting equipment/instructions

Specific Methods

Product is not flammable. Use firefighting measures that suit the surrounding fire.

None

If this product is involved in a fire, the following can be released: carbon monoxide and carbon dioxide

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire

Use standard firefighting procedures and consider the hazards of the other involved materials.

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Nonflammable

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

Methods and materials for containment and cleaning up

Dispose of contaminated material as waste according to section 13

Environmental precautions Do not allow product to reach sewage system or any water course.

Section 7: Handling and Storage

Precautions for safe handling Put on appropriate personal protective equipment (see section 8) Do not get in eyes or on

skin or clothing. Do not ingest. Keep in the original container or an approved alternative made from a compatible material, keep tightly closed when not in use. Empty containers

retain product residue and can be hazardous. Do not reuse container.

Conditions for safe storage, including

any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool well ventilated area, away from incompatible materials (see section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until

ready for use.

Specific usesThis product is intended to be used for foliar applications.

Section 8: Exposure Controls/Personal Protection

Occupational exposure limits

PRODUCT COMPOSITION	ACCGIH TLV	OSHA PEL	NIOSH REL
Manganese Carbonate	Long-term value: 0.02* 0.1** mg/m³ *respirable **inhalable fraction	5mg/m ³	Short-term value: 3mg/m³ Long-term value: 1mg/m³

Biological limit valuesNo biological exposure limits noted for the ingredients.

exhaust ventilation or other engineering controls to keep worker exposure to airborne

contaminants below any recommended or statutory limits.

Individual protection members, such as personal protective equipment

Eve/face protection Safety eyewear complying with an improved standard should be used when a risk

assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or

dust. Recommended: Tightly-fitting googles

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the

glove supplier

Other Wear perfect chemical resistant clothing

Respiratory protection If engineering controls do not maintain airborne concentrations below recommended

exposure limits (where applicable) or to an acceptable level (in countries where exposure

limits have not been established), an approved respirator must be worn.

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Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations: The usual precautionary measures for handling chemicals should be followed. Keep away

from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing

immediately. Wash hands before breaks and at the end of work. Avoid contact with the eyes

and skin. Maintain an ergonomically appropriate working environment.

Section 9: Physical and Chemical Properties

	PRODUCT CRITERIA
APPEARANCE - COLOR:	Light Brown
PHYSICAL STATE:	Suspension
ODOR:	Slight Odor
ODOR THRESHOLD	No data available
pH	
MELTING POINT/FREEZING POINT:	No data available
INITIAL BOILING POINT AND BOILING RANGE:	> 100°C
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):	1.66
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: No information known

Chemical Stability:Stable under recommended conditions.Possibility of Hazardous Reactions:Reacts violently with strong oxidizing agentsConditions to Avoid:No further relevant information available

Incompatibility (Materials to avoid):

Hazardous decomposition products:

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 serious 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	

Skin corrosion/irritation May cause skin irritation

Serious eye damage/eye irritation May cause serious 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 Persistence and degradability: No information is available

Toxicity

Mobility in soil:

Chemical Constituent	Result	Species	Exposure
None			

Aquatic Toxicity

No further relevant information available

Persistence and degradability

No further relevant information available

Bioaccumulative potential:

No further relevant information available.

PBT and vPvB assessment: PBT/vPvB assessment not available as chemical assessment not required/not conducted

No further relevant information available

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 storm water

drainage system.

Section 14: Transport Information

DOT

UN Number Not applicable

UN proper shipping name Transportation hazard class

Class N/A Subsidiary risk N/A

Packing group N/A

Special precautions for user Read safety instructions, SDS and emergency procedures before handling

ERG number N/A

DOR information on packaging may be different from that listed

DOT

Section 15: Regulatory Information

US Federal Regulations

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: Manganese (II) carbonate CAS 598-62-9

Hazards categories: Immediate Hazard -No

Delayed Hazard – No Fire Hazard – No Pressure Hazard – No Reactivity Hazard – No

SARA 302 Extremely hazardous substance

Not listed

SARA 311/312 Hazardous chemical

Not listed

SARA 313 (TRI Reporting)

Manganese (II) carbonate

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: substance not listed

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

Massachusetts's hazardous substance(s):

Pennsylvania

None
New Jersey

None

CANADA:

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

EUROPEAN UNION:

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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: December 16, 2016 Final revision date: March 10, 2021

Revision Number:

Revision explanation Initial version

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

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