



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
7815 South Hardy Drive
Tempe, AZ 85215 USA

Safety Data Sheet Competent Person: Customer Service

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

DATE PREPARED: January 2, 2017

REVISION DATE: March 10, 2021

PRODUCT NAME:

Carbo Man

FORMULA:

Preparation/Mixture

PRODUCT USE:

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

Section 2: Hazards Identification

GHS Hazard Class

Physical Hazards: None

Health Hazards: Serious eye damage/eye irritation Category 1
Skin irritant Category 1

Label elements:



Signal word:

Danger

Hazard Statement:

H373: Causes damage to organs through prolonged or repeated exposure
H411: Toxic to aquatic life with long lasting effects

Precautionary Statements: Prevention

P260: Do not breathe dust/ fume/ gas/mist/vapors/spray
P273: Avoid release to the environment

Response

P314: Get medical advice /attention if you feel unwell
P391: Collect spillage

Storage

None

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:

concentrate

Component	Health (Blue)	Flammability (Red)	Reactivity (Yellow)	Special (White)
Carbo Man	2	0	0	-----



Section 3: Composition, Information on Ingredients

PRODUCT COMPOSITION	APPROX %	CAS NO.	EC NUMBER	CANADA DSL
Manganese Glycinate	< 30	6912-28-3	None	N
Water	< 50	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
Ingestion	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 damage
Symptoms/Injuries after Ingestion	Harmful if swallowed. May cause burns to mouth, throat and stomach.

Indication of any immediate medical attention and special treatment needed

No further relevant information available

General Information

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

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

Unsuitable extinguishing media

None

Special hazards arising from the substance or mixture

If this product is involved in a fire, the following can be released: Manganese oxides

Protective actions fire-fighters

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

Firefighting equipment/instructions

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

Specific Methods

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

General fire hazards

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 uses

This 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

Biological limit values

No biological exposure limits noted for the ingredients.

Appropriate engineering controls

If user operations generate dust, fumes, gas vapor, or mists use process enclosures local 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**Eye/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 goggles

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.

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:	
PHYSICAL STATE:	Liquid
ODOR:	Slight Odor
ODOR THRESHOLD	No data available
pH	5.0
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):	1.35
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 with strong oxidizing agents

Conditions to Avoid:

No further relevant information available

Incompatibility (Materials to avoid):

Oxidizing agents

Hazardous decomposition products:

Sulfur oxides, Iron oxides, carbon monoxide, carbon dioxide, nitrogen oxides hydrogen chloride gas fumes

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 damage

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

Causes skin irritation



Serious eye damage/eye irritation	Causes serious eye damage
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 CFR 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

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.
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.



Initial issue date: December 12, 2016
Final revision date: March 10, 2021
Revision Number: 1
Revision explanation: Address change
Information Sources: RTECS, ECHA, REACH, OSHA 29CFR 1910.1200

“Disclaimer: This document is generated to distribute health, safety and environmental data. It is not a specification sheet and none of the displayed data should be construed as a specification. Information on this SDS sheet was obtained from sources which we believe are reliable, and we believe that the information is complete and accurate. However, the information is provided without any warranty, express or implied, regarding its correctness. Some of the information presented and conclusions drawn are from sources other than direct test data of the substance. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may also be beyond our knowledge. It is the user’s responsibility to determine the suitability of any material for a specific purpose and to adopt such safety precautions as may be necessary. If the product is used as a component in another product, this SDS information may not be applicable. For these reasons, we do not assume any responsibility and expressly disclaim liability for any loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product.”