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HYDROBLASTERS - HYDROKLEEN - HYDROPAD

www.hydroblaster.com

Safety Data Sheet

Section 1. Identification

Product identifier Hydro-Biodigester, Nutrient Liquid

Other means of identification HBDN-6, HBDN-55

Product Description Water Soluble Fertilizer

Recommended use Not available.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Supplier

Company name Hydro Engineering, Inc.

Address 865 W 2600 S
Salt Lake City, UT 84119

Telephone 800-247-8424

Website <http://www.hydroblaster.com>

Emergency phone number Chemtrec Within US & Canada: 800-424-9300

Section 2. Hazard(s) identification

OSHA Regulatory Status This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR1910.1200).

Labelling

Signal word No signal word.

Precautionary Statement Keep out of reach of children.

Potential health effects

Eye Contact Contact with eyes may cause irritation

Skin Contact Irritation not expected. Irritation possible.

Ingestion Considered practically non-toxic. Possible gastrointestinal tract irritation.

Inhalation May cause irritation of respiratory tract.

Aggravated Medical Conditions Inhalation may aggravate asthma.

Principle routes of exposure Skin, Inhalation

Section 3. Composition/information on ingredients

Components	CAS-No	Weight %
di-Sodium-EDTA	139-33-3	<1.0
Potassium Phosphate	7778-77-0	<1.0
Boric acid, H3BO3	10043-35-3	<1.0
Sodium molybdate, Na2MoO4+2H2O	7631-95-0	<1.0
Iron EDTA	15708-41-5	<1.0
Manganese EDTA	15375-84-5	<1.0
Potassium chloride, KCl	7447-40-7	<1.0
Copper sulphate, CuSO4	7758-98-7	<1.0
Zinc Sulfate	7733-02-0	<1.0
Ammoniumsulphate, (NH4)2SO4	7783-20-2	<1.0
Urea	57-13-6	<1.0

Section 4. First-aid measures

Eye Contact	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice
Skin Contact	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice
Ingestion	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person
Inhalation	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice

Section 5. Fire-fighting measures

Flammable properties	Decomposes on heating.
Suitable extinguishing media	Water spray, carbon dioxide, dry chemical, chemical foam
Explosion potential	Dust clouds may be explosive.
Explosive properties	No information available.
Hazardous combustion products	Combustion can produce toxic fumes and irritating gases.
Fire fighting procedures	Select appropriate method to surround and extinguish fire.
Special protective equipment for firefighters	In the event of fire, wear self-contained breathing apparatus

Section 6. Accidental release measures

Personal Precautions	Wear personal protective equipment
Environmental precautions	Prevent product from entering drains
Methods for containment	Use good housekeeping practices. Clean up promptly by sweeping or vacuum.
Methods for cleaning up	If material is uncontaminated, collect and reuse as recommended for product.

Section 7. Handling and storage

Handling	Avoid container breakage.
Storage	Keep containers tightly closed in a cool, well-ventilated place.

Section 8. Exposure controls/personal protection

Components	ACGIH:	OSHA:
Ammoniumsulphate, (NH ₄) ₂ SO ₄	Not Listed	Not Listed
Potassium Phosphate	Not Listed	Not Listed
Potassium chloride, KCl	Not Listed	Not Listed
Urea	Not Listed	Not Listed
Boric acid, H ₃ BO ₃	2 mg/m ³ TWA inhalable fraction, listed under borate compounds, inorganic	Not Listed
Manganese EDTA	0.2 mg/m ³ TWA	Not Listed
Iron EDTA	1 mg/m ³ TWA as Fe	Not Listed
Copper sulphate, CuSO ₄	0.2 mg/m ³ TWA fume 1 mg/m ³ TWA dusts and mists, as Cu	0.1 mg/m ³ TWA fume 1 mg/m ³ TWA dusts and mists
Zinc Sulfate	Not Listed	Not Listed
Sodium molybdate, Na ₂ MoO ₄ ·2H ₂ O	0.5 mg/m ³ TWA respirable fraction, as Mo 10 mg/m ³ TWA inhalable fraction 3 mg/m ³ TWA respirable fraction	15 mg/m ³ TWA total dust 5 mg/m ³ TWA as Mo
di-Sodium-EDTA	Not Listed	Not Listed

Engineering controls	Use adequate ventilation to keep the airborne concentrations of this material below the recommended exposure standard
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Personal Protective Equipment

Eye/face protection

Eye/face protection is not required, but is recommended in manufacturing situations where contact may occur.

Skin and body protection

Wear suitable protective clothing if contact is anticipated during manufacturing. Impervious gloves.

Respiratory protection

If airborne levels are high or product does not remain intact, use a combination of engineering controls (e.g. ventilation) and personal protection (e.g. NIOSH/MSHA approved respirator for dusts, mists, and fumes)

General hygiene considerations

Wash hands before breaks and immediately after handling the product.

Section 9. Physical and chemical properties

Physical State	Solid	Appearance	Granular
Color	Blue	pH	3.0 – 4.0
Bulk Density	45-50 lbs/cu.ft.	Solubility	Water solubility, Highly soluble (>80%)
Flash Point	Not applicable		

Section 10. Stability and reactivity

Chemical Stability	Yes
Conditions to avoid	Damp or wet conditions. Extreme heat.
Materials to avoid	Oxidizing agents. Metals. Bases.
Hazardous decomposition products	Toxic fumes and gases may be generated. Metal oxides possible.
Possibility of hazardous reactions	Poses little or no immediate hazard.

Section 11. Toxicological information

Acute Toxicity

Eye Effects	Contact with eyes may cause irritation.
Skin Effects	May cause skin irritation and/or dermatitis.

Chronic toxicity

Carcinogenic effects: The table below indicates whether each agency has listed any ingredient as a carcinogen.

Components	NTP:	IARC:	OSHA:
Ammoniumsulphate, (NH ₄) ₂ SO ₄	Not listed	Not listed	Not listed
Potassium Phosphate	Not listed	Not listed	Not listed
Potassium chloride, KCl	Not listed	Not listed	Not listed
Urea	Not listed	Not listed	Not listed
Boric acid, H ₃ BO ₃	Not listed	Not listed	Not listed
Manganese EDTA	Not listed	Not listed	Not listed
Iron EDTA	Not listed	Not listed	Not listed
Copper sulphate, CuSO ₄	Not listed	Not listed	Not listed
Zinc Sulfate	Not listed	Not listed	Not listed
Sodium molybdate, Na ₂ MoO ₄ +2H ₂ O	Not listed	Not listed	Not listed
di-Sodium-EDTA	Not listed	Not listed	Not listed

General Information	Very low toxicity for humans and animals.
Ingestion	Health injuries are not known or expected under normal use.
Inhalation	Health injuries are not known or expected under normal use.

Section 12. Ecological information

Ecotoxicity effects	No data is available on the product itself.
Persistence and degradability	Inherently biodegradable. Non-persistent.
Bioaccumulative potential	Does not bioaccumulate.
Mobility	Water contaminating.
Aquatic toxicity	May be beneficial to plant life.
Additional ecological information	Do not apply directly to lakes, streams, or ponds.

Section 13. Disposal considerations

Waste Disposal Methods	Apply as fertilizer to field. Dispose of in accordance with local regulations and national regulations.
Contaminated packaging	Do not re-use empty containers. If empty, place in trash or offer for recycling if available.

Section 14. Transport information

The description shown may not apply to all situations. Consult 49 CFR, or appropriate dangerous goods regulations for additional description requirements (e.g. technical name) and mode-specific or quantity-specific shipping requirements.

DOT

Proper shipping name	Not regulated
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Section 15. Regulatory information

Components	CAS-No	CERCLA/SARA 313	CERCLA/SARA 302
Ammoniumsulphate, (NH ₄) ₂ SO ₄	7783-20-2	Not Listed	Not Listed
Potassium Phosphate	7778-77-0	Not Listed	Not Listed
Potassium chloride, KCl	7447-40-7	Not Listed	Not Listed
Urea	57-13-6	Not Listed	Not Listed
Boric acid, H ₃ BO ₃	10043-35-3	Not Listed	Not Listed
Manganese EDTA	15375-84-5	Not Listed	Not Listed
Iron EDTA	15708-41-5	Not Listed	Not Listed
Copper sulphate, CuSO ₄	7758-98-7	10 lb final RQ 2270 kg final RQ 4.54 kg final RQ 5000 lb final RQ	Not Listed
Zinc Sulfate	7733-02-0	1000 lb final RQ 454 kg final RQ 454 kg final RQ	Not Listed
Sodium molybdate, Na ₂ MoO ₄ +2H ₂ O	7631-95-0	Not Listed	Not Listed
di-Sodium-EDTA	139-33-3	Not Listed	Not Listed

General Information

Contact local authorities for disposal of large quantities of product

Section 16. Other information, including date of preparation or last revision

NFPA Health: 1 Flammability: 0 Reactivity: 0

HMS Health: 1 Flammability: 0 Reactivity: 0

Hazard Rating

0=Least; 1-Slight; 2=Moderate; 3=High; 4=Severe

General comment: This document contains health, safety, and environmental information useful to emergency response agencies, health care providers, manufacturers, and workers/employees. It does not replace the precautionary language, use directions, or the storage and disposal information found on the product label.

Issue date

11-October-2018

Revision date

09-December-20

Disclaimer

This safety data sheet (SDS) was prepared in accordance with the 29 CFR 1910.1200. The information contained herein is based upon data available to us and reflects our best professional judgment. However, no warranty is expressed or implied regarding the accuracy of such information or the results obtained from the use thereof. We assume no legal responsibility whatsoever for any damage resulting from reliance upon this information since it is being furnished upon the condition that the person receiving it shall make his or her own determination of the suitability of the material described herein for a particular application, storage, or disposal situation.