



*Products for a greener
cleaner earth.*

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name HE-100
Product Use Description Hydrocarbon Super Absorbent

Details of the supplier of the safety data sheet

Company Name Green Spill Solutions, LLC.
Address P.O. Box 1558
Tomball, Texas 77377-1558
USA
Telephone +1-903-399-0901
E-Mail Address info@greenspillsolutions.com
Emergency Telephone +1-903-399-0901 in the USA

2. HAZARDS IDENTIFICATION

Emergency Overview

NON DANGEROUS – NOT REGULATED	
Appearance	powder
Color	white
Odor	None

GHS Classification

Not Classified

GHS Label Element

Hazard pictograms None

Signal Word None

Hazard Statements None

Precautionary Statements None

Disposal Dispose of contents/container to an appropriate disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Potential Health Effects

Inhalation	None known.
Skin	None known.
Eyes	May cause eye irritation, similar to getting dust or sand in a person's eye.
Ingestion	None known.
Aggravated Medical Condition	None known.
Symptoms of Overexposure	No information available.

Carcinogenicity

IARC	No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
ACGIH	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Name	CAS-No.	Concentration [%]
Proprietary Formulation	Trade Secret	100

4. FIRST AID MEASURES

General Advice	Medical attention may be required if symptoms were to occur. Show this material safety data sheet to the doctor in attendance.
Inhalation	Supply fresh air. Consult a physician if any symptoms persist.
Skin Contact	Rinse with water. If any skin irritation persists, call a physician.
Eye contact	Rinse with plenty of water if irritation occurs. Remove contact lenses. Keep eyes wide open while rinsing.
Ingestion	Do not induce vomiting. Get medical advice/attention if you feel unwell.

Notes to Physician

Symptoms	Long term skin contact could cause skin dryness.
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Risks None known.

Treatment Treat symptoms. No specific antidote.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Carbon Dioxide, powder or water spray. For large fires use foam, water spray and call for fire-fighting assistance. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread the fire.

Specific hazards during firefighting and/or arising from the substance or mixture.

Fire hazard Non-flammable but will burn. Combustion of products may include carbon monoxide and carbon dioxide.

Explosion hazard Static charge buildup can be a potential fire hazard when used in the presence of volatile, flammable vapors or in high airborne dust concentrations.

Reactivity Non-reactive.

Advice for firefighters Keep container cool with water. Use standard protective clothing for fire-fighters, including respiratory protection.

See also Section 9. Physical and chemical properties: Safety data

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

General measures If spilled, may cause a slipping hazard. Avoid dust generation. Keep away from ignition sources. Ensure adequate ventilation when handling product.

Environmental precautions Products are non-hazardous waste. Do not intentionally flush into surface water or sanitary sewer systems. Proper disposal should be evaluated based upon local regulations/legislation or directions.

Methods for clean-up If spilled, shovel or sweep up or use an industrial vacuum. Products are non-hazardous waste. Proper disposal should be evaluated based upon local regulations/legislation or directions.

Reference to other sections Refer to sections 7, 8 and 13.

7. HANDLING AND STORAGE

Handling

Advice on safe handling Prevent generation of dust. If necessary, wear a dust mask and safety glasses. Wash hands after use. Avoid eating, drinking and smoking while handling product.

Advice on protection against fire and explosion Normal measures for preventive fire protection.

Storage

Requirements for storage areas and containers Keep containers tightly closed in a dry, cool and well-ventilated place. Avoid storage at elevated temperatures to minimize particulate clustering.

Other data None if stored and applied as directed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters - Exposure Guidelines

ACGIH	Not applicable	
OSHA	OSHA PEL (TWA)(mg/m ³)	No Occupational Exposure Limits are established. Nuisance Dust, if generated: OSHA TWA (8 hours) 10 mg/m ³

Engineering Measures

Use local exhaust ventilation and earth ground all equipment to minimize static charges that may develop when handling large volumes of product.

Personal Protective Equipment

Eye/Face Protection Safety glasses or safety goggles

Hand Protection Glove material: cloth

Skin and Body Protection Standard issue work clothes.

Respiratory Protection In the case of dust formation, use a particulate pre-filter, a cartridge designed for nuisance dust is recommended.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.
When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of the workday.

Environmental Exposure Controls

General advice Products are non-hazardous waste. Do not intentionally flush into surface water or sanitary sewer systems. Its size and quantity released may interfere with sewage treatment systems. Proper disposal should be evaluated based upon local regulations/legislation or directions.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form Solid/Powder

Color	Clear; White
Odor	Essentially odorless
Odor Threshold	Not determined
Specific Gravity	gm/cc 0.91 - 0.94 ASTM D4025
Safety Data	
pH	Not applicable (Insoluble)
Melting point/freezing point	Not determined
Boiling point/boiling range	Not applicable
Flash Point	Not applicable
Reactivity with water	Non-reactive
Evaporation rate	Not applicable
Flammability (solid, gas)	Not a flammable solid/powder
Lower Explosion Limit	No data available
Upper Explosion Limit	No data available
Reid Vapor Pressure	Not applicable
Relative Vapor Density	Not applicable
Relative Density	Typically between 0.88 – 0.95 at 20°C
Water Solubility	Insoluble
Solubility in Other Solvents	Acetone - No data available Methanol - No data available N-Pentane
Partition Coefficient: n-Octanol/water	Not applicable
Auto Ignition Temperature	Not determined
Decomposition Temperature	Not determined
Viscosity	Not applicable
Explosive Properties	Not explosive in normal state
Oxidizing Properties	The substance or mixture is not classified as oxidizing

This material safety datasheet only contains information relating to safety and does not replace any product information or product specifications.

10. STABILITY AND REACTIVITY

Conditions to avoid	Avoid prolonged exposure to excessive heat or UV light since this may affect product properties. Product will burn when exposed to continuous sources of ignition.
Materials to avoid	Avoid contact with strong acids, alkalis and oxidizing agents
Hazardous Decomposition Products	No hazardous decomposition under normal temperatures. If product were to be ignited, typical decomposition products are ultimately oxides of carbon.
Thermal Decomposition	No data available
Reactivity	Stable under normal conditions
Chemical Stability	Stable under recommended storage conditions
Hazardous Reactions	No dangerous reaction known under conditions of normal use.

11. TOXICOLOGICAL INFORMATION**Product Information:**

Acute Toxicity Not classified

Toxicology Assessment	Results
USP Systematic Toxicity Study in Mice - Extract	No mortality or evidence of systematic toxicity from extracts
USP Intracutaneous Study in Rabbits - Extract	No evidence of significant irritation from the extracts injected intracutaneously
USP Muscle Implantation Study in Rabbits – 7 Day:	No evidence of irritation or toxicity in accordance with USP, General Chapter 88, Biological Reactivity Test, Macroscopic reactions insignificant
Cytotoxicity Study using the Colony Assay in Chinese Hamster Lung Cells (V79)	Test article is not cytotoxic
<i>In Vitro</i> Hemolysis Study in Red Blood Cells, Japanese MHLW:	Test article is non-hemolytic

Test Result:

Acute dermal toxicity Not classified

Skin Irritation Not classified

Eye Irritation Not classified

Carcinogenicity:

IARC Not classified
No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. Not classified

OSHA No ingredient of this product present at levels greater than or equal to 0.1% is identified as carcinogen or potential carcinogen by OSHA. Not classified

NTP No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. Not classified

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12. ECOLOGICAL INFORMATION

Product Information

Ecotoxicology Assessment

LC50 fish 1	>1000 ppm Acute 96-Hour Water Absorbing Fraction (WAF) performed on Rainbow Trout
LOEC (chronic)	No data available

Additional ecological information An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Further Information on Ecology

Hazards to the ozone layer Regulation 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone – CAA Section 602 Class I Substances

Remarks This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App. A + B).

Elimination Information (Persistence and Degradability)

Bioaccumulation Bioaccumulation is highly unlikely

Mobility in Soil Not mobile, Remains on surface of soil.

Biodegradability Result: Products are inert and non-biodegradable.

Further Information on Ecology

Biochemical Oxygen available Demand (BOD) Product is inert and not soluble in water.

13. DISPOSAL CONSIDERATIONS

Waste disposal considerations Its size and quantity released may interfere with sewage treatment systems. Recover or recycle if possible. Incinerate or consult a licensed landfill provider. Remove all packaging for recycling or disposal based on local regulations.

14. TRANSPORT INFORMATION

International Regulation

IATA-DGR

Un/ID No.	Not Regulated
Proper Shipping Name	None
Class	
Packing Group	Non hazardous
Labels	
Packing Instruction (Cargo Aircraft)	
Packing Instruction (Passenger Aircraft)	
Packing Instruction (LQ)	
Environmentally Hazardous	No

IMDG-Code

Un/ID No.	Not Regulated
Proper Shipping Name	None
Class	
Packing Group	Non hazardous
Labels	
Marine Pollutant	No

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic Regulation

49 CFR
 Not regulated as a dangerous good
 TOG
 Not regulated as a dangerous good
 NOM-002-SCT
 Not regulated as a dangerous good

15. REGULATORY INFORMATION**Notification Status**

CH INV	YES. The mixture contains substances listed on the Swiss Inventory.
TSCA	YES. All chemical substances in this product are either listed on the TSCA Inventory or in compliance with a TSCA Inventory exemption.
DSL	YES. All components of this product are on the Canadian DSL.
AICS	YES. On the inventory, or in compliance with the inventory.
NZIoC	YES. On the inventory, or in compliance with the inventory.
ENCS	YES. On the inventory, or in compliance with the inventory.
ISHL	YES. On the inventory, or in compliance with the inventory.
KECI	YES. On the inventory, or in compliance with the inventory.
PICCS	YES. On the inventory, or in compliance with the inventory.
IECSC	YES. On the inventory, or in compliance with the inventory.

For explanation of abbreviations, see Section 16.

OSHA Hazards: Non-hazardous.

EPCRA – Emergency Planning and Community Right-to-Know**CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a Section 304 EHS RQ.

Sara 311/312 Hazards

SARA 311/312: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 311/312.

Sara 302

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313

SARA 313: This material does not contain any chemical components with known GAS numbers that exceed the threshold (De Minimis) reporting levels established by ARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCOMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Air Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. CleanWater Act Section 307.

California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

16. OTHER INFORMATION**Further Information**

HMIS Classification

Health Hazard: 0
Flammability: 1
Reactivity: 0

NFPA Classification

Health Hazard: 0
Fire Hazard: 1
Reactivity Hazard: 0



Notification Status Explanation

Reach	1907/2006 (EU)
CH INV	Switzerland. New notified substances and declared preparations
TSCA	United States TSCA Inventory
DSL	Canadian Domestic Substances List (DSL)
AICS	Australia Inventory of Chemical Substances (AICS)
NZIoC	New Zealand. Inventory of Chemical Substances
ENCS	Japan. ENCS – Existing and New Chemical Substances Inventory
ISHL	Japan. ISHL – Inventory of Chemical Substances (METI)
KECI	Korea. Korean Existing Chemicals Inventory (KECI)
PICCS	Philippines Inventory of Chemicals and Chemical Substances (PICCS)
IECSC	China. Inventory of Existing Chemical Substances in China (IESCS)

Further Information

Revision Date 09/12/2016

The information in this safety data sheet should be provided to all who will use, handle, store, transport or otherwise be exposed to this product. The user must determine the appropriate measures that need to be implemented for the use and handling of this product in the context of the user's operations and use of this product. The information contained herein supersedes all previously issued bulletins on the subject matter covered. If the date on this document is more than three years old, call to make certain that this sheet is current. No warranty is made as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. User must determine for himself, by preliminary tests or otherwise, the suitability of this product for his purposes, including mixing with other products. Nothing contained herein shall be construed as granting or extending any license under any patent.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.