







## HG 2-4-3 + Holganix

Mini- 90 SGN

HG 2-4-3 is an all natural, non-burning blend of ingredients promoting overall turf and plant quality.

Holganix® has been applied to the granules to provide the non-plant food ingredients.

HG 2-4-3 is naturally high in calcium, an essential nutrient that promotes strong and healthy plants.

### Application Rates

GREENS, TEES, & OTHER FINE TURF

Apply 5 to 10 lb of product per 1,000 sq ft to deliver 0.1 to 0.2 lb of N per 1,000 sq ft

FAIRWAYS, ROUGHS, & RESIDENTIAL LAWNS

Apply 218 to 436 lb of product per acre to deliver 0.1 to 0.2 lb of N per 1,000 sq ft

Use Recommended rates above to apply 3.5 - 7 oz. equivalent of Holganix® per 1000 sq ft.

Apply up to 50 lb per 1,000 sq ft to deliver 1 lb of N per 1,000 sq ft.

### USE PRECAUTIONS

Apply to dry turf. Always calibrate spreader to ensure proper application. Irrigate to move product down into the turf canopy before mowing.

### DIRECTIONS FOR USE

Use during the active growing season to achieve soil test goals and/or desired aesthetic results.

healthy  
grow  
PROFESSIONAL

### Guaranteed Analysis

Total Nitrogen (N)	(N)	2.0%
0.3% Ammoniacal Nitrogen		
1.7% Organic Nitrogen		
Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	(P <sub>2</sub> O <sub>5</sub> )	4.0%
Soluble Potash (K <sub>2</sub> O)	(K <sub>2</sub> O)	3.0%
Calcium (Ca)	(Ca)	8.0%
Sulfur (S)	(S)	0.5%

Derived from: Aerobically Composted Chicken Manure ACCM)

Also contains Non-Plant Food Ingredients from Holganix

Molasses and high Fructose Corn Syrup	2.38%
Brewer's Yeast	0.48%
Yucca Extract	0.01%
Endo Mycorrhizae	0.014%
Ecto Mycorrhizae	0.014%

**QUESTIONS? Call 866-563-2784 or visit us online at [www.holganix.com](http://www.holganix.com)**

MANUFACTURED BY, AND IN CONJUNCTION WITH:



Pearl Valley Organix, Inc. • 968 South Kent Road • Pearl City, IL 61062  
(815) 443-2170 • [healthy-grow.com](http://healthy-grow.com)

Holganix® is a registered trademark of Holganix LLC.  
Holganix LLC, 54 Conchester Road, Glen Mills, PA 19342-1506  
Holganix is a patented product – US Patent No. 8,790,436

**NET WEIGHT : 50 LBS**



Warranty Limitations  
Pearl Valley Organix warrants the product to conform to the specification of its label. User assumes all risks associated with its use.



Trade Name: HGH 2-4-3

Registration: None

**Section 1 CHEMICAL PRODUCT AND COMPANY INFORMATION**

Manufacturer or Formulator:	Pearl Valley Organix, Inc. 968 S Kent Road Pearl City, IL 61062	Product Name:	Healthy Grow
		Common Name:	Natural Based Fertilizer
		Chemical Type:	NA
Emergency Phone:	815-443-2170		

**Section 2 COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	C. A. S. No.	Chemical Formula
Composted Chicken Manure	NA	NA

**Section 3 HAZARDOUS IDENTIFICATION**

Ingestion:	Non-Toxic. No Information listed.
Inhalation:	May cause aggravation in a dusty environment.
Eye Contact:	May cause minor abrasions.
Skin Absorption:	Not absorbed through the skin.
Skin Contact:	May cause minor local discomfort with prolonged contact.
Effects of Overdose:	None listed.

**Section 4 FIRST AID MEASURES**

Ingestion:	Call a physician.
Inhalation:	Dust may cause irritation or burning sensation. If condition persists, seek medical attention.
Eyes:	Flush with running water for 15 minutes. If condition persists, get medical attention.
Skin:	Wash skin with soap and water. If condition persists, get medical attention.

**Section 5 FIRE FIGHTING MEASURES**

Extinguishing Media:	Use media suitable to extinguish the source of the fire.
Special Fire Fighting Procedures:	Use media suitable to extinguish the source of the fire.
Unusual Fire and Explosion Hazards:	None.

**Section 6 ACCIDENTAL RELEASE MEASURES**

Environmental Precautions:	Do not apply directly to waterways or bodies of water.
Steps to be taken in case material is released or spilled:	Sweep up and put into container or recycle.

**Section 7 HANDLING & STORAGE**

Precautions to be taken in handling and storage:	Prevent spillage, use good personal hygiene and work practices.
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**Section 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

Ventilation Protection:	As needed to remove dust from exposed areas.
Respiratory Protection:	Use dust respirator mask.
Protective Clothing:	Normal work clothing.
Eye Protection:	Safety glasses with side shields or goggles.
Other:	Eyewash fountain.

**Section 9 PHYSICAL AND CHEMICAL PROPERTIES**

Boiling Point:	Not Applicable	Solubility in water:	6%
Density:	NA	% Volatiles by Volume:	5%
Flashpoint:	Non-flammable	Vapor Pressure, mm Hg:	Not applicable
pH:	6	Reaction with water:	None
Appearance:	Dark granular	Extinguishing Media:	Non-flammable

**Section 10 STABILITY & REACTIVITY**

Stability (Normal Conditions):	Stable.
Conditions to avoid:	NA
Materials to avoid:	NA
Hazardous Decomposition Products:	CO and NOx gases.
Hazardous Polymerization:	Will not occur.

**Section 11 TOXICOLOGY INFORMATION**

none listed

**Section 12 ECOLOGICAL INFORMATION**

none listed

**Section 14 TRANSPORT INFORMATION**

Shipping Name:	Organic Fertilizer		
Hazard Class:	Typical analysis	C.A.S. Number:	None
Reportable Quantity (RQ):	None	D.O.T. Number:	None
Labels Required:	None	Haz Waste No:	None
Placard:	None	EPA Regist No:	None

**Section 15 REGULATORY INFORMATION**

Carcinogenicity:  
by IARC?: No by NTP?: No Not on the 302 list of reportable quantities.  
CPR Statement: This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

DISCLAIMER: This information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. No representations, warranty or guarantee is made as to its accuracy, reliability or completeness. No warranty of merchantability, fitness for any particular purpose or any other warranty, expressed or implied is made concerning the information herein provided.

Jan-16

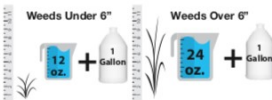
<b>Ingredients</b>	
<b>Active Ingredients</b>	5.00%
Sodium Lauryl Sulfate	4.00%
(from Palm Kernel Oil)	
Citric Acid (organic)	1.00%
<b>Other Ingredients</b>	95.00%
Sodium Benzoate, Polyglyceryl Oleate, Gaur Gum & Water	
Total	100.00%
Weed Rot™ is derived from natural and organic ingredients.	

#### How It Works:

SNS Weed Rot™ is a Natural Systemic Post Emergence Non-Selective Weed Killer. It works by removing the waxy layer and penetrates deep into the roots to stop the plant from taking in amino acids and nutrients.

#### Directions For Mix:

For Weeds under 6", mix 12 ounces of SNS Weed Rot™ with 1 Gallon of Water. For weeds over 6", mix 24 ounces of SNS Weed Rot™ to 1 gallon of water. Mix well.



#### Directions for Use:

Shake Well Before Using. Spray directly on leaves and stems, saturating the entire plant. Weed-Rot™ works best on weeds less than 6 inches in height and smaller, weeds larger than 6 inches may require additional applications. Spraying may be done 8 hours prior to rain or irrigation. You will notice weeds browning in 1 to 2 days of application and complete kill in 5 to 10 days depending on temperature. Weed-Rot™ should not harm higher order plants like trees, shrubs and vines when slight over spray contacts them, however some discoloration maybe noticed.



# WEEDROT™

## Natural Systemic Post Emergence Non-Selective Weed Killer

Controls Star Thistle, Nut Grass,  
Bermuda Grass, and other Weeds



### CONCENTRATED

1 GALLON (3.79L)	2.5 GALLONS (9.47L)	5 GALLONS (18.9L)	50 GALLONS (189L)	250 GALLONS (945L)
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This product has not been registered by the United States Environmental Protection Agency. Sierra Natural Science represents that this product qualifies for exemption from registration under the Federal Insecticide, Fungicide and Rodenticide Act. (FIFRA)

**Warning:** Keep Out of Reach of Children.

**Warning:** Use Eye Protection, Chemical Rated Gloves & Long Sleeve Shirt.

#### First Aid

Not intended for human consumption. As with any herbicide, avoid contact with eyes and skin. If in eyes, flush eyes with water for a minimum of 15-20 minutes. If on skin, wash skin with soap and water. If irritation persists contact a physician. Have the product container or label with you when calling a poison control center or doctor, or going in for treatment. Poison control center hotline 1-800-222-1222 if over exposure occurs.

#### Storage and Disposal

Store in a cool, dry area away from heat or open flame. Do not reuse container. Dispose in trash or offer for recycling if available.

**Warranty and Disclaimer Notice:** Please visit [www.sierranaturalscience.com/warranty.html](http://www.sierranaturalscience.com/warranty.html) for more information

Thoroughly wash all food areas and food materials contacted with soap and water. Do not use near heat or open flame. Store in cool location out of direct sunlight. Do not freeze.



Patents Pending

Questions/Comments?  
1-877-626-5505

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[www.sierranaturalscience.com](http://www.sierranaturalscience.com)

Sierra Natural Science Inc.  
1031 Industrial St. Unit C  
Salinas, CA 93901



Made in USA



Rev4



# Safety Data Sheet


## SNS-WeedRot Natural Systemic Herbicide Concentrate

### SECTION 1: PRODUCT AND COMPANY INFORMATION

**Manufacturer** Sierra Natural Science, Inc., 1031 Industrial St. Unit C, CA 93901 - (831) 757-1702 - [www.sierranaturalscience.com](http://www.sierranaturalscience.com)  
**Product Family** Natural Herbicide  
**Trade Name(s)** SNS-WeedRot Natural Systemic Herbicide Post Emergent Non Selective  
**Recommended Uses** Spray to control Broad leaf weeds, Grasses

24-Hour Emergency Phone Number CHEMTREC (800) 424-9300

### SECTION 2: HAZARD IDENTIFICATION

EMERGENCY OVERVIEW			
		HMIS	
GHS Classification	Xi-Irritant	HEALTH	2
Physical Hazards	Not Classified	FLAMMABILITY	0
		PHYSICAL HAZARD	0
Health Hazards	H319 Causes serious eye irritation	PERSONAL PROTECTION	See Section 8
Signal Word	Warning		

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	Percentage
Sodium Lauryl Sulfate	151-21-3	2-4%
Citric Acid	77-92-9	8-15%

### SECTION 4: FIRST AID MEASURES

**Skin Contact** Remove contaminated clothing including shoes. Wash area of contact with soap and water. Wash contaminated clothing and shoes before reuse. Get medical attention if irritation occurs and persists.

**Eye Contact** Remove contact lenses if present. Immediately flush eyes with water until all traces of material are gone. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention if irritation persists.

**Inhalation** Remove affected person from source of exposure. Get medical attention if ill effects or discomfort persists.

**Ingestion** Do not induce vomiting because of danger of aspiration into lungs. If spontaneous vomiting occurs, monitor for breathing difficulty. Get medical attention if discomfort or ill effects occur.

### SECTION 5: FIREFIGHTING MEASURES

#### Basic Firefighting Procedures

Product will not burn. Use fire-fighting procedures appropriate for surrounding fire. Use a water spray to cool fire-exposed containers, structures and to protect personnel. Exposed firefighters should wear MSHA/NIOSH approved self-contained breathing apparatus with full-face mask and full protective equipment. Flush spills away from sources of ignition

#### Unusual Fire and Explosion Hazards

Irritating or toxic substances may be emitted.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

Refer to Section 8: Exposure Control and Personal Protection

#### Emergency Action

Isolate release area and keep unnecessary people away. Exercise caution regarding personnel safety and exposure.

# Safety Data Sheet

## SNS-WeedRot Natural Systemic Herbicide Concentrate

### Spill/Leak Procedure

Floor and surfaces may be slippery. Dike with sand or other noncombustible material. Flush area with water; use absorbent material and dispose of properly.

### SECTION 7: HANDLING AND STORAGE

#### Refer to Section 8: Exposure Control and Personal Protection

**Handling** Wear proper protective equipment to avoid prolonged contact with skin, eyes and clothing. Avoid breathing vapors or mists. Do not ingest. Use good hygiene practices when handling product, including changing and laundering work clothes after use. Get medical attention if you feel unwell. The shipping and storage container is not designed to be pressurized. Do not use pressure to empty the container as it may rupture. Containers should be completely drained, properly closed, and disposed of properly. Empty containers may contain residue or vapors. Do not cut, grind, drill, weld or reuse containers.

**Storage** Store product in closed containers in a well-ventilated area away from heat, sources of ignition and incompatibles. Do not store in unlabeled containers.

### SECTION 8: EXPOSURE CONTROL AND PERSONAL PROTECTION

#### Component

ACGIH

OSHA

Not Applicable

#### Engineering Controls

Use exhaust ventilation to control vapor and mist.

#### Eye and Face Protection

Always wear safety glasses; use face shield if splashing is possible.

#### Skin Protection

Oil and chemical resistant gloves should be used to avoid prolonged or repeated contact.

#### Respiratory Protection

A NIOSH or MSHA approved respirator should be used in areas with high vapor concentrations or misting.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical State	white to yellow liquid	Flash Point	Not Applicable
Specific Gravity (Water=1)	1	Upper/Lower Flammability Limits (Vol. %)	Not Applicable
pH	1-2.0	Auto-ignition Temperature	Not Applicable
Solubility in Water	Soluble	Decomposition Temperature	Not Determined
Odor	Characteristic	Vapor Pressure (kPa at 20°C / 68°F)	Not Determined
Odor Threshold	Not Determined	Vapor Density (Air=1)	Not Determined
Melting/Freezing Point	Not Determined	Partition Coefficient (n-octanol/water)	Not Determined
Boiling Range	Not Determined	Viscosity (40°C mm <sup>2</sup> /s) or (cSt at 40°C)	Not Determined
Initial Boiling Point	212 °F	Critical Temperature	Not Determined

**Note:** Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Those should be requested separately.

### SECTION 10: STABILITY AND REACTIVITY

#### Reactivity

Does not react under normal conditions of use.

#### Chemical Stability

Stable under normal conditions of use.

#### Stability/Incompatibility

Avoid contact with strong oxidizers.

#### Conditions to Avoid

Open flame or sources of ignition.

#### Hazardous Reactions/Decomposition Products

Does not decompose under normal conditions.



Safety Data Sheet  
**SNS-WeedRot Natural Systemic Herbicide Concentrate**

**SECTION 11: TOXICOLOGICAL INFORMATION**

Likely Routes of Exposure	Inhalation, skin, eyes
Acute Effects	LD <sub>50</sub> and LC <sub>50</sub> of the product are not determined but are expected to be high based on toxicity of components. Excessive contact, inhalation or ingestion may cause irritation or discomfort. Refer to Sections 2 and 4 for recommended actions.
Medical conditions aggravated by long term exposure	Eye, skin and respiratory disorders
Chronic Effects	Any acute symptoms may be aggravated. Refer to Sections 2 and 4 for recommended actions.
Symptoms	May include redness, cracking of the skin, gastrointestinal and respiratory discomfort. Refer to Sections 2 and 4 for recommended actions.
Carcinogenicity	No components of this product are found to be carcinogens by NTP, IARC or OSHA.

**SECTION 12: ECOLOGICAL INFORMATION**

Ecotoxicity	Not Determined.
Persistence and Biodegradability	Not Determined
Bioaccumulative Potential	Not Determined
Mobility in Soil	Not Determined

**SECTION 13: DISPOSAL CONSIDERATION**

Dispose of this product in compliance with all applicable federal, state and local regulations.

**SECTION 14: TRANSPORT INFORMATION**

DOT	Not Regulated
UN Proper Shipping Name/No.	Not Regulated

**SECTION 15: REGULATORY INFORMATION**

Chemical Inventory Lists	All ingredients are listed on TSCA and DSL
SARA (311/312) Reportable Hazard Categories	None



"Xi" - Irritant

S25: Avoid contact with eyes.

H319 Causes serious eye irritation.



## Safety Data Sheet

### SNS-WeedRot Natural Systemic Herbicide Concentrate

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#### SECTION 16: OTHER INFORMATION

Disclaimer: The data presented here relates only to the specific material designated herein and does not relate to use in combination with any other materials or in any process. The information set forth above is based on technical data believed to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside our control, no warranties, expressed or implied are made, and no liability is assumed in connection with any use of this information. Judgments as to the suitability of this information for the user's purposes are necessarily the user's responsibility. Although reasonable care has been taken in the preparation of this information, no responsibility is assumed as to the accuracy or suitability of this information for its application to the users intended purpose or for consequences of its use. Potential Health Effects: This product is a mixture for which no specific health hazard data exists. OSHA requires that one should assume such mixtures present the same health hazards as do any components present in amounts greater than 1% (0.1% for carcinogens). Consumers accessing our SDS information should keep in mind the information is presented in a format required by the U.S. Government's Occupational Safety and Health Administration (OSHA). We provide SDS as a service for our business customers. These industrial SDS are not applicable to consumer use of these products. We thoroughly evaluate the safety aspects of all of our consumer products prior to their use in the home.

Prepared By:

Sierra Natural Science, Inc.

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