

Safety Data Sheet



SDS (formerly MSDS)

Conforms to HCS 2012 - United States

Date: 08/04/2016

This product is classified as a 25(b) FIFRA-exempt pesticide in accordance with the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and meets the conditions specified under 40 CFR 152.25(f). Therefore, this product does not require EPA registration. It is safe for use when handled and applied according to the instructions.





Section 1. Chemical product and company identification

Manufactured by:	Dutch Direct	Product name:	IPM Root Drench
Information contact:	18 North 57th Drive Ste #1 Phoenix Az 85043 United States Tel: +1 (844) 388-2434 info@dutchdirect.us	Revision:	1-4-2018

Section 2. Composition - information on ingredients

Active ingredients	12.5%	Inert ingredients	87.5%
Rosemary Oil	8.0%	H2O	78.5%
Corn Oil	2.0%	Glycerin	4.0%
Citric Acid	1.0%	Sorbitol	2.0%
Thyme Oil	0.5%	Polyglycerol Oleate	2.0%
Clove Oil	0.5%	Ascorbic Acid	1.0%
Cinnamon Oil	0.5%		

Section 3: Hazard identification

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
REACTIVITY	0
Potential acute health effects:	The product and its components represent no known hazard to health or environment. The oral LD 50 > 5,000 mg/ Kg for the essential oil components of this product.
Potential chronic health effects:	None.



Section 4: First aid measures

Emergency and First Aid Procedures:				
Primary Routes of Exposure:	Inhalation	Eye Contact	Skin Contact	Ingestion
Effects of Over-exposure:				
Skin:	Prolonged exposure may cause a skin sensitization in susceptible individuals. Low order of toxicity.			
Eyes:	Immediately flush eyes with water. Get medical attention if irritation persists.			
Ingestion:	Ingestion should be avoided. Get medical attention if ill effects or discomfort persists.			
Inhalation:	Remove affected person from area of exposure.			

Section 5: Fire fighting measures

Product Data:				
Flash point (°F):	Over 510°F Fahrenheit, essential oils			
Flammability Limits in Air (% by Vol.):	Lower:	Not established	Upper:	Not established
Auto-ignition Temperature:	Not Established, Aqueous solution, > 250°F			
Extinguishing Media for fires:	Carbon dioxide, dry powder, foam, water fog or mist. Water may be ineffective on flames, but should be used to keep fire exposed containers cool.			
Special Fire Fighting Procedures:	Product will not burn or produce unusual chemical hazards upon exposure to heat, water or extinguishing media.			
HMIS Rating:	Health:	0		
	Flammability:	0		
	Reactivity:	0		
*HMIS: Minimal= 0, Slight= 1, Moderate= 2, Serious= 3, Severe= 4				



Personal Protective Equipment (PPE):		Personal Protective Equipment:
A=	Safety glasses	Fire fighters need self-contained respiratory equipment for fires in enclosed areas.
B=	Safety glasses, gloves	
C=	Safety glasses, gloves, chemical apron	
D=	Face shield, gloves, chemical apron	
E=	Safety glasses, gloves, dust respirator	

Section 6: Accidental release measures

Procedure:	
Contain, collect and reuse, if possible. This product is not considered a hazardous product, and is therefore not considered a hazardous waste. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.	
Personal Protection:	
Respiratory Protection:	Approved NIOSH/MSHA (nuisance dust) respirator may be necessary under certain conditions where airborne contaminants may exceed exposure limits.
Eye Protection:	Wear goggles or safety glasses with side shields at all times.
Other Protective Equipment:	Impervious gloves, long sleeve pants and shirts, and protective head-wear should be worn to minimize exposure.

Section 7: Handling and storage

Storage Conditions:
The maximum recommended storage temperature for this product is 160°F. Store in a well ventilated area.
Handling Procedures:
Avoid ignition sources such as sparks and flame. No special precautionary health measures should be needed under anticipated conditions of storage or use. As a water based product, general incompatibility with hydrocarbon oils are expected. However, no reaction (hazardous or otherwise) is expected on contact with other materials.



Section 8: Exposure controls/personal protection

Exposure Limit Information:	The use of local exhaust ventilation is recommended to control process emissions near source. Provide mechanical ventilation of confined spaces.		
Respiratory Information:	A respiratory protection program meeting OSHA 29 CFR & 1910-134 and ANSI Z88. Two requirements must be followed whenever work place conditions warrant a respirator’s use.		
Eye Protection:	Use Chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent). Eye protection worn must be compatible with respiratory protection system employed.		
Hand Protection:	NOTE: Material may be a skin sensitizer in susceptible individuals. The gloves listed below may provide protection against permeation. Gloves of other chemically resistant materials may not provide adequate protection:	- Butyl Rubber - Nitrile	
	Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough. Rinse and remove gloves after use. Wash hands with soap and water.		
Other Protection:	Use a chemically resistant apron or other impervious clothing to avoid prolonged or repeated skin contact.		
Engineering Controls (Ventilation):	Use local exhaust ventilation with a minimum capture velocity of 150 ft. /min. (0.75 m/ sec.) at the point of dust or mist evolution. Refer to the current edition of <i>Industrial Ventilation: A Manual of Recommended Practice</i> , published by the American Conference of Government Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.		
Other Protective Equipment:	Facilities storing or utilizing this product should be equipped with an eyewash facility and safety showers.		
The product and its components represent no known hazard to health or environment. The oral LD 50 > 5,000 mg/ Kg for the essential oil components of this product.			

Section 9: Physical and chemical properties

Physical State:	Water like	Water Solubility:	miscible
Appearance/Odor:	Amber -cream	Melting Point:	N/A, liquid
Evaporation Rate:	Equal to water	pH:	6.6 – 7.0
		Boiling Point:	N/A



Specific Gravity:	.894 @ 77°F	Boiling Point:	>200°F
Critical Temp:	N/A	Odor:	Mild aromatic
Vapor Density:	Water	Melt Point:	<32°F
Volatility:	as Water	Dispersion:	Aqueous

Section 10: Stability and reactivity

Stability:	This product is considered stable. Hazardous polymerization will not occur.
Conditions to Avoid:	Extreme temperatures and open flames.
Materials to Avoid:	Avoid mixing with strong oxidants.
Hazardous Decomposition Products:	None Known.
Hazardous Polymerization Products:	None Known.

Section 11: Toxicological information

Routes of Entry:	Eye contact. Inhalation. Ingestion.
Toxicity to Animals:	Acute oral toxicity (LD50): 5000 mg/kg [Rat].
Chronic Effects on Humans:	Not available.
Other Toxic Effects on Humans:	possible irritant on skin contact, ingestion, or inhalation.
Special Remarks on Toxicity to Animals:	None Known.
Special Remarks on Chronic Effects on Humans:	None Known.
Special Remarks on other Toxic Effects on Humans:	None Known.
Also refer to section three for information on potential health effects.	



Section 12: Ecological information

Ecotoxicity:	None Known.
BOD5 and COD:	Not available.
Products of Biodegradation:	Short term degradation products are not likely.
Toxicity of the Products of Biodegradation:	The products of degradation are not known to be toxic.
Special Remarks on the Products of Biodegradation:	None available.
No specific ecological data are available for this product.	

Section 13: Disposal considerations

Dispose of this product in compliance with all applicable federal, state, and local regulations
Please refer to sections 5 and 6 for disposal and regulatory information.

Section 14: Transport information

Department of Transportation (DOT)	DOT Shipping Name:	Not regulated.
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Section 15: Regulatory information

Chemical Inventory Lists:	All products are listed on TSCA and DSL.
SARA (311/312) Reportable Hazardous Categories:	NONE.
Federal and State Regulations:	TSCA 8(b) inventory: Rosemary oil.
Other Regulations:	Not available.
Other Classifications:	WHMIS (Canada): Not controlled under WHMIS (Canada). DSCL (EEC): R36/38- Irritating to eyes and skin. HMIS (U.S.A.): p.5 Health Hazard: 0 Fire Hazard: 0 Reactivity: 0
Personal Protection:	National Fire Protection Association (NFPA): Health: 0 Flammability: 0 Reactivity: 0 Specific hazard: N/A
Protective Equipment:	Gloves. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Splash goggles.



Section 16: Other information

The data presented here relates only to the product in use as designated and in relation to other materials.

References:	N/A
Other Special Considerations:	N/A
Created:	7/09/2012
Last Updated:	08/4/2016

Section 17: Certifications





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