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SECTION 1. IDENTIFICATION

Product identifier used on the label

: Rhizo Life Hardy

Other means of identification : Not available.

Recommended use of the chemical and restrictions on use

Chemical family	 Agricultural amendment. Restriction on use: None known Mixture 	
Name, address, and telep of the supplier: AgVent LLC	bhone number	Name, address, and telephone number of the manufacturer: Refer to supplier
1231 E 1420 N Richfield, OR, USA 83349		
Supplier's Telephone #	: 1-855-844-4632 (9am-5pm PST	Monday to Friday)
24 Hr. Emergency Tel #	: 1-855-844-4632 (9am-5pm PST	Monday to Friday)

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Dark brown liquid. Mild odour.

This material is not classified as hazardous under U.S. OSHA regulations (29 CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Label elements

Hazard pictogram(s)

None required under U.S. OSHA Hazcom 2012 and Canadian WHMIS 2015 regulations.

Signal Word

Not required

Hazard statement(s)

Not required

Precautionary statement(s)

Not required

Other hazards

Other hazards which do not result in classification: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Chemical name	Common name and synonyms	<u>CAS #</u>	Concentration (% by weight)
Humic acids	Alkali Extracted Humic Acid	1415-93-6	1.0 - 5.0

The exact concentrations of the above listed chemicals are being withheld as a trade secret.

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SECTION 4. FIRST-AID MEASURES

Description of first aid meas	sures
Ingestion	: Do not induce vomiting, unless directed to do so by qualified medical personnel. Give small amounts of water to drink. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.
Inhalation	: If breathing is difficult, give oxygen by qualified medical personnel only. If breathing has stopped, give artificial respiration.
Skin contact	: Wash off with soap and plenty of water. If skin irritation occurs: get medical advice/attention. Take off contaminated clothing and wash it before reuse.
Eye contact	: Flush eyes with water for at least 15 minutes. If eye irritation persists: get medical advice/attention.
Most important symptoms a	nd effects, both acute and delayed
	: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Indication of any immediate	medical attention and special treatment needed

: Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

: Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

Unsuitable extinguishing media

: Use water spray with caution. Do not use a solid water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture / Conditions of flammability

: Not considered flammable.

Flammability classification (OSHA 29 CFR 1910.106)

: Not flammable.

Hazardous combustion products

: Carbon oxides and other irritating fumes and smoke.

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Special fire-fighting procedures

: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Use water to cool fire-exposed containers. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply or any natural waterway. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

	:	Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.
Environmental precautions	:	Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.
Methods and material for cor	nta	5 11 5

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: Ventilate area of release. Stop the spill at source if it is safe to do so. Remove all sources of ignition. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Notify the appropriate authorities as required.

Special spill response procedures

 If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the National Response Center in the United States (phone: 1-800-424-8802).
 US CERCLA Reportable quantity (RQ): None.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

	:	Wear protective gloves and eye/face protection. Use only in well-ventilated areas. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment. Avoid breathing fumes or mists. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.Keep away from incompatibles. Keep containers tightly closed when not in use.
Conditions for safe storage	:	Store in original containers. Store at temperatures between 4.4°C - 49°C.Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Incompatible materials	:	Oxidizing agents

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:				
Chemical Name	ACGI	H TLV	<u>OSH/</u>	A PEL
	<u>TWA</u>	<u>STEL</u>	PEL	<u>STEL</u>
Humic acids	N/Av	N/Av	N/Av	N/Av

Exposure controls

Ventilation and engineering measures

	: Use only in well-ventilated areas. Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.
Respiratory protection	 Respiratory protection is required if the concentrations exceed the TLV.
	NIOSH-approved respirators are recommended. A self contained breathing apparatus should be used in emergency situations or instances where exposure levels are not
	known. Seek advice from respiratory protection specialists. Respirators should be selected based on the form and concentration of contaminants in air, and in
	accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02.
Skin protection	: Wear protective gloves. The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Eye / face protection	: Wear as appropriate: Chemical safety glasses with side shields or splash proof goggles.
Other protective equipment	: An eyewash station and safety shower should be made available in the immediate working area. Other equipment may be required depending on workplace standards.

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: Do not ingest. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

SECTION 9. PHYSICAL A	ND CHEMICAL PROPERTIES
Appearance	: Dark brown liquid.
Odour	: Mild odour.
Odour threshold	: Not available.
рН	: 9-11
Melting Point/Freezing point	: Not available.
Initial boiling point and boili	ng range
	: Not available.
Flash point	: Not available.
Flashpoint (Method)	: Not available.
Evaporation rate (BuAe = 1)	: Not available.
Flammability (solid, gas)	: Not applicable.
Lower flammable limit (% by	vol.)
	: Not available.
Upper flammable limit (% by	-
	: Not available.
Oxidizing properties	: None known.
Explosive properties	: Not explosive
Vapour pressure	: Not available.
Vapour density	Not available.
Relative density / Specific gr	-
	: Not available.
Solubility in water	: Soluble.
Other solubility(ies)	: Not available.
Partition coefficient: n-octan	ol/water or Coefficient of water/oil distribution
	: Not available.
Auto-ignition temperature	: Not applicable.
Decomposition temperature	
Viscosity	Not available.
Volatiles (% by weight)	: Not available.
Volatile organic Compounds	: Not available.
Absolute pressure of contain	
Absolute pressure of contain	
	: Not applicable.
Flame projection length	: Not applicable.
Other physical/chemical con	nments : None known or reported by the manufacturer.
SECTION 10. STABILITY A	
Reactivity	: Not normally reactive.
Chemical stability	: Material is stable under normal conditions.
Possibility of hazardous read	ctions

Conditions to avoid

- Hazardous polymerization does not occur.
 Avoid heat and open flame. Keep away from incompatibles. Keep container tightly
- closed when not in use.

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Incompatible materials : See Section 7 (Handling and Storage) for further details. Hazardous decomposition products

: None known, refer to hazardous combustion products in Section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry inhalation : YES

Routes of entry skin & eye : YES

Routes of entry Ingestion : YES

Routes of exposure skin absorption

: YES

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

	:	Under normal conditions of	use, harmful effects are not e	xpected.
Sign and symptoms inges	tion			
	:	Ingestion may cause gastroi	ntestinal irritation, nausea, vo	miting and diarrhea.
Sign and symptoms skin	:	May cause mild transient irri	tation.	
Sign and symptoms eyes	:	May cause mild transient irri	tation.	
Potential Chronic Health Ef	fects	5		
	:	Chronic skin contact with low	w concentrations may cause of	dermatitis.
Mutagenicity	:	Not expected to be mutager	nic in humans.	
Carcinogenicity	:	No components are listed as	s carcinogens by ACGIH, IAR	C, OSHA or NTP.
Reproductive effects & Ter	atoge	enicity		
	:	Not expected to have other r	eproductive effects.	
Sensitization to material	:	Not expected to be a skin or	respiratory sensitizer.	
Specific target organ effect	ts:	Target Organs: Eyes, skin an	d digestive system.	
		The substance or mixture is exposure.	not classified as specific targ	et organ toxicant, single
		The substance or mixture is exposure.	not classified as specific targ	et organ toxicant, repeated
Medical conditions aggrav	ated	by overexposure		
	:	Pre-existing skin, eye and re	espiratory disorders.	
Synergistic materials	:	Not available.		
Toxicological data	:	See below for individual ingr	edient acute toxicity data.	
		LC50(4hr)	LD	50
Chemical name		<u>inh, rat</u>	<u>(Oral, rat)</u>	(Rabbit, dermal)
Humic acids		N/Av	N/Av	N/Av

Other important toxicological hazards

: None known or reported by the manufacturer.

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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

: The ecological characteristics of this product have not been fully investigated. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

Ecotoxicity data:

Ingredients	CAC #	Toxicity to Fish		
	CAS #	LC50 / 96h	NOEC / 21 day	M Factor
Humic acids	1415-93-6	N/Av	N/Av	None.

Ingredients	CAS #	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Humic acids	1415-93-6	N/Av	N/Av	None.

Ingredients	CAS #	То	exicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor	
Humic acids	1415-93-6	N/Av	N/Av	None.	
Persistence and degradabili	ity		I I		
	: The methods substances.	for determining biodegrad	dability are not applicable to	inorganic	
Bioaccumulation potential	: No data is av	No data is available on the product itself.			
Mobility in soil	: No data is av	o data is available on the product itself.			
Other Adverse Environment	al effects				

: No data is available on the product itself.

SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal Methods of Disposal	 Handle waste according to recommendations in Section 7. Dispose in accordance with all applicable federal, state, provincial and local regulations.
RCRA	: Under the RCRA, it is the responsibility of the waste generator to determine the proper waste identification and disposal method.

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SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
TDG	None.	Not regulated.	not regulated	none	\oslash
TDG Additional information	None.	·			
49CFR/DOT	None.	Not regulated.	not regulated	none	\bigotimes
49CFR/DOT Additional information	None.				
Special preca	utions for use	 r : None reported by the manufacturer. See ECOLOGICAL INFORMATION Section 12 			

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

: Not available.

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

		TSCA CERCLA		SARA TITLE III: Sec. 302, Extremely	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical		
Ingredients	CAS #	CAS # Inventory	Quantity(RQ) (40 CFR 117.302):	Hazardous Substance, 40 CFR 355:	Toxic Chemical	de minimus Concentration	
Humic acids	1415-93-6	Yes	N/Ap	N/Av	No	NS	

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: None.

Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

Ingredients	CAS #	California	a Proposition 65		State	"Right to	o Know"	Lists	
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Humic acids	1415-93-6	No	N/Ap	No	No	No	No	No	No

All ingredients are present on the DSL.

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International Information:

Components listed below are present on the following International Inventory list:

					KECI/KECL	IECSC	IOC
Humic acids 1415-93-6	215-809-6	Present	Present	N/Av	KE-19975	Present	N/Av

SECTION 16. OTHER INFORMATION

Keferences :	ACGIH: American Conference of Governmental Industrial Hygienists CAS: Chemical Abstract Services CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980 CFR: Code of Federal Regulations CSA: Canadian Standards Association DOT: Department of Transportation EPA: Environmental Protection Agency HMIS: Hazardous Materials Identification System HSDB: Hazardous Substances Data Bank IARC: International Agency for Research on Cancer IATA: International Civil Aviation Organisation IMDG: International Maritime Dangerous Goods Inh: Inhalation LC: Lethal Concentration LD: Lethal Dose N/Ap: Not Applicable N/AP: Not Applicable NFPA: National Institute of Occupational Safety and Health NTP: National Institute of Occupational Safety and Health NTP: National Toxicology Program OSHA: Occupational Safety and Health Administration PEL: Permissible exposure limit RCRA: Resource Conservation and Recovery Act RTECS: Registry of Toxic Effects of Chemical Substances SARA: Superfund Amendments and Reauthorization Act STEL: Short Term Exposure Limit TDG: Canadian Transportation of Dangerous Goods Act & Regulations TLV: Threshold Limit Values TWA: Time Weighted Average WHMIS: Workplace Hazardous Materials Identification System 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices
References :	
Preparation Date (mm/dd/yyyy)	
:	06/02/2021
Reviewed Date SDS (dd/mm/yy	уу)
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Revision Information

: (M)SDS sections updated 3. COMPOSITION/INFORMATION ON INGREDIENTS 15. REGULATORY INFORMATION 16. Other information

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

Prepared for: AgVent LLC 1231 E 1420 N Richfield, OR, USA, 83349 Telephone: (208) 401 6631	
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