# SAFETY DATA SHEET

#### **SECTION 1. IDENTIFICATION**

#### Product identifier used on the label

## : Hardy Si

Other means of identification : Not available.

#### Recommended use of the chemical and restrictions on use

Chemical family	<ul><li>Agricultural amendment.</li><li>Restriction on use: None known</li><li>Mixture</li></ul>	
Name, address, and telep of the supplier:	hone number	Name, address, and telephone number of the manufacturer:
<b>AgVent LLC</b> 1231 E 1420 N Richfield, OR, USA 83349		Refer to supplier
Supplier's Telephone # 24 Hr. Emergency Tel #	: 1-855-844-4632 (9am-5pm PST : 1-855-844-4632 (9am-5pm PST	5 57

#### 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: May cause mild transient irritation. 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
Hydrated amorphous silica	Monosilicic acid	10279-57-9	1.0 - 5.0

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

SECTION 4. FIRST-AID MEASURES			
Description of first aid r	neasures		
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 sympton	Most important symptoms and effects, both acute and delayed		
Indication of any immed	: May cause mild transient irritation. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Iiate medical attention and special treatment needed		
indication of any initiat	: Treat symptomatically.		

## SECTION 5. FIRE-FIGHTING MEASURES

### Extinguishing media

Environme

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 med	lia
	: Use water spray with caution. Do not use a solid water stream as it may scatter and spread fire.
Special hazards arising from t	he substance or mixture / Conditions of flammability
	Not considered flammable.
Flammability classification (O	SHA 29 CFR 1910.106)
	Not flammable.
Hazardous combustion produce	cts
	: Carbon oxides and other irritating fumes and smoke.
Special protective equipment a Protective equipment for fire-	and precautions for firefighters 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 procedure	
	: 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.
<b>SECTION 6. ACCIDENTAL</b>	RELEASE MEASURES
	ive equipment and emergency procedures
reisonal precautions, protecti	are 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.
ental 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.

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#### Methods and material for containment and cleaning up

: 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	:	None known or reported by the manufacturer.

### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:				
Chemical Name	ACGI	H TLV	OSHA PEL	
	<u>TWA</u>	<u>STEL</u>	PEL	STEL
Humic acids	N/Av	N/Av	N/Av	N/Av
Hydrated amorphous silica	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	<ul> <li>Respiratory protection is required if the concentrations exceed the TLV.</li> </ul>
	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	<ul> <li>Wear as appropriate: Chemical safety glasses with side shields or splash proof goggles.</li> </ul>
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.
General hygiene considerati	

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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 AN	ND CHEMICAL PROPERTIES
Appearance	: Dark brown liquid.
Odour	: Mild odour.
Odour threshold	: Not available.
pH	: 7-9
Melting Point/Freezing point	
Initial boiling point and boilir	
initial boining point and boining	
	: Not available.
Flash point	: Not available.
Flashpoint (Method)	: Not available.
Evaporation rate (BuAe = 1)	
Flammability (solid, gas)	: Not applicable.
Lower flammable limit (% by	: Not available.
Upper flammable limit (% by	
opper namnable innit ( // by	: Not available.
Oxidizing properties	None known.
Explosive properties	: Not explosive
Vapour pressure	: Not available.
Vapour density	: Not available.
Relative density / Specific gra	
5	Not available.
Solubility in water	: Soluble.
Other solubility(ies)	Not available.
2, ,	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	(VOC's)
	: Not available.
Absolute pressure of contair	ner
	: Not applicable.
Flame projection length	: Not applicable.
Other physical/chemical com	
	: None known or reported by the manufacturer.
SECTION 10. STABILITY A	AND REACTIVITY
Reactivity	: Not normally reactive.
Chemical stability	: Material is stable under normal conditions.
Possibility of hazardous read	
-	

: Hazardous polymerization does not occur.

closed when not in use.

Conditions to avoid

: Avoid heat and open flame. Keep away from incompatibles. Keep container tightly

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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:

Humic acids

Hydrated amorphous silica

#### Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

	nder normal conditions of use, harmful effects a	are not expected.			
Sign and symptoms ingestion					
	gestion may cause gastrointestinal irritation, na	ausea, vomiting and diarrhea.			
Sign and symptoms skin	ay cause mild transient irritation.				
Sign and symptoms eyes	ay cause mild transient irritation.				
Potential Chronic Health Ef					
	hronic skin contact with low concentrations may	y cause dermatitis.			
Mutagenicity	ot expected to be mutagenic in humans.				
Carcinogenicity	o components are listed as carcinogens by AC	GIH, IARC, OSHA or NTP.			
Reproductive effects & Ter	city				
	ot expected to have other reproductive effects.				
Sensitization to material	ot expected to be a skin or respiratory sensitize	r.			
Specific target organ effect	rget Organs: Eyes, skin and digestive system.				
	ne substance or mixture is not classified as spe posure.	cific target organ toxicant, single			
	ne substance or mixture is not classified as spe cposure.	cific target organ toxicant, repeated			
Medical conditions aggrava	overexposure				
	e-existing skin, eye and respiratory disorders.				
Synergistic materials	ot available.				
Toxicological data	e below for individual ingredient acute toxicity	data.			
	LC₅₀(4hr)	LD50			
Chemical name	inh, rat (Oral, rat)	(Rabbit, dermal)			
	<u>inn, rat</u> (Oral, rat)	(Kabbit, uer illar)			

N/Av

N/Av

N/Av

N/Av

N/Av

N/Av

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#### Other important toxicological hazards

: None known or reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION		
Ecotoxicity	<ul> <li>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.</li> </ul>	

#### Ecotoxicity data:

la una dia uta	040 #	Toxicity to Fish		
<u>Ingredients</u>	CAS #	LC50 / 96h	NOEC / 21 day	M Factor
Humic acids	1415-93-6	N/Av	N/Av	None.
Hydrated amorphous silica	10279-57-9	N/Av	N/Av	None.

Ingredients	CAS #	Тох	cicity to Daphnia	
		EC50 / 48h	NOEC / 21 day	M Factor
Humic acids	1415-93-6	N/Av	N/Av	None.
Hydrated amorphous silica	10279-57-9	N/Av	N/Av	None.

Ingredients	CAS #	То	xicity to Algae	
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Humic acids	1415-93-6	N/Av	N/Av	None.
Hydrated amorphous silica	10279-57-9	N/Av	N/Av	None.

Persistence and degradability

	:	The methods for determining biodegradability are not applicable to inorganic substances.					
Bioaccumulation potential	:	No data is available on the product itself.					
Mobility in soil	:	No data is available on the product itself.					
Other Adverse Environmental effects							
		No data is sucilable on the product itself					

#### : No data is available on the product itself.

### SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal	:	Handle waste according to recommendations in Section 7.
Methods of Disposal	:	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	$\bigotimes$			
TDG Additional information	None.			-				
49CFR/DOT	None.	Not regulated.	not regulated	none	$\bigotimes$			
49CFR/DOT Additional information								
Special preca		r : None reported by the manufacturer.						

Environmental hazards : 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 Reportable	SARA TITLE III: Sec. 302, Extremely	SARA TITLE III: Sec. 313, 40 C 372, Specific Toxic Chemica	
Ingredients	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
Hydrated amorphous silica	10279-57-9	NL	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	California Proposition 65		State "Right to Know" Lists					
	0110 #	Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI	
Humic acids	1415-93-6	No	N/Ap	No	No	No	No	No	No	
Hydrated amorphous silica	10279-57-9	No	N/Ap	No	No	No	No	No	No	

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### **Canadian Information:**

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

### International Information:

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

Ingredients	CAS #	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Humic acids	1415-93-6	215-809-6	Present	Present	N/Av	KE-19975	Present	N/Av
Hydrated amorphous silica	10279-57-9	N/Av	N/Av	Present	N/Av	N/Av	Present	N/Av

### **SECTION 16. OTHER INFORMATION**

Legend	: 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 Air Transport Association
	ICAO: International Civil Aviation Organisation
	IMDG: International Maritime Dangerous Goods
	Inh: Inhalation
	LC: Lethal Concentration
	LD: Lethal Dose
	N/Ap: Not Applicable
	N/Av: Not Available
	NFPA: National Fire Protection Association
	NIOSH: 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

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References Preparation Date (mm/dd/yyy Reviewed Date SDS (dd/mm/	: 06/04/2021					
Revision No.	: 09/24/2024 : 2					
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	
Prepared by: ICC The Compliance Center Inc. Telephone: (888) 442-9628 (U.S.): (888) 977-4834 (Canada) http://www.thecompliancecenter.com	icc Compliance Center

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