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Supersedes: 08/14/2017

Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Trade name	: FourStar WSP Water Soluble Pouch
Synonyms	: 100514312; EPA Reg. No.: 85685-3
1.2. Recommended use and restriction	ons on use
Recommended use	: Multi-brood microbial insecticide.
Restrictions on use	: Do not apply directly to treated, finished drinking water reservoirs or drinking water receptacles when the water is intended for human consumption. Avoid contact with eyes, skin or clothing.
1.3. Supplier	
Fourstar Microbial Products, LLC	
1501 E. Woodfield Road, Suite 200W	
Schaumburg, IL 60173 - United States	
www.fourstarmicrobials.com	
1.4. Emergency telephone number	
Emergency number	: 1-800-248-7763
	1-800-424-9300 - CHEMTREC 1-703-527-3887 - CHEMTREC - Outside North America - Collect Calls Accepted
	1-703-527-5007 - CHEMTREC - Outside North America - Collect Calls Accepted
SECTION 2: Hazard(s) identification	on
2.1. Classification of the substance of	or mixture
GHS-US classification	
Skin sensitization, Category 1	May cause an allergic skin reaction
Carcinogenicity Category 1A Specific target organ toxicity (repeated expos Category 1	May cause cancer sure) Causes damage to organs through prolonged or repeated exposure
	precautionary statements
	precautionary statements
2.2. GHS Label elements, including p	precautionary statements
2.2. GHS Label elements, including p GHS-US labeling	recautionary statements
2.2. GHS Label elements, including p GHS-US labeling Hazard pictograms (GHS-US)	GHS07 GHS08
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Safety Data Sheet

	The finished product is not considered can The Hazard Statement "May Cause Cance contains naturally occurring crystalline sili- humans if inhaled. Respiratory exposure t to occur under normal conditions of use d packaged in pouches. The crystalline silic exposure via inhalation in light of studies of particulates from the product during extrem	er" is presented because a compone ca (quartz) which is classified as card o silica dust from the finished produc ue to the manner in which the constil a in the finished product is unlikely to conducted that indicate there is minir	ent of this product cinogenic to ct is not expected tuents are o pose personal
2.3. Other hazards which do not resu	Ilt in classification		
Other hazards not contributing to the classification	: Under United States Regulations (29 CFR product is considered hazardous.	1910.1200 - Hazard Communication	n Standard), this
2.4. Unknown acute toxicity (GHS US	8)		
Not applicable			
SECTION 3: Composition/Informa	tion on ingredients		
3.1. Substances			
Not applicable			
3.2. Mixtures			
Name		Product identifier	%
Bacillus sphaericus		(CAS-No.) 143447-72-7	3
Bacillus thuringiensis ssp. israelensis		(CAS-No.) 68038-71-1	3
Silica, crystalline - quartz		(CAS-No.) 14808-60-7	70 - 90
SECTION 4: First-aid measures			
4.1. Description of first aid measures	1		
First-aid measures general	: IF exposed or concerned: Get medical ad	vice/attention.	
First-aid measures after inhalation	: IF INHALED: Remove person to fresh air CENTER or doctor/physician if you feel ur	and keep comfortable for breathing.	Call a POISON
		iweii.	
First-aid measures after skin contact	<ul> <li>IF ON SKIN: Wash with plenty of soap an irritation or rash occurs: Get medical advice</li> </ul>	d water. Take off contaminated cloth	ing. If skin
	: IF ON SKIN: Wash with plenty of soap and	d water. Take off contaminated cloth ce/attention. or several minutes. Remove contact	lenses, if present
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<ul> <li>First-aid measures after eye contact</li> <li>First-aid measures after ingestion</li> <li>4.2. Most important symptoms and e Symptoms/effects after inhalation</li> <li>Symptoms/effects after skin contact</li> <li>4.3. Immediate medical attention and</li> </ul>	<ul> <li>IF ON SKIN: Wash with plenty of soap anirritation or rash occurs: Get medical advid</li> <li>IF IN EYES: Rinse cautiously with water for and easy to do. Continue rinsing. If eye irr</li> <li>IF SWALLOWED: Call a POISON CENTE Do NOT induce vomiting unless directed t</li> <li>Inhalation may cause irritation (cough, shown in the second second</li></ul>	d water. Take off contaminated cloth ce/attention. or several minutes. Remove contact itation persists: Get medical advice R or doctor/physician if you feel unw o do so by medical personnel.	lenses, if present and attention.
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6.1.2.	For emergency responders	
Protect	tive equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: Exposure controls/personal protection.
6.2.	Environmental precautions	
Avoid r	elease to the environment.	
6.3.	Methods and material for contain	nent and cleaning up
Method	ds for cleaning up	: Sweep or scoop spills, dispose of any unusable material in approved landfill. Use appropriate PPE.
SECT	FION 7: Handling and storage	
7.1.	Precautions for safe handling	
Precau	itions for safe handling	: Ensure good ventilation of the work station. Avoid dust formation. Do not handle until all safety

Precautions for safe handling	precautions have been read and understood. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.
Hygiene measures	: Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, include	ding any incompatibilities
Storage conditions	: Store locked up. Store in a well-ventilated place. Keep cool.

Incompatible materials

: Strong oxidizers.

# SECTION 8: Exposure controls/personal protection

# 8.1. Control parameters

Silica, crystalline - quartz (14808-60-7)		
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (respirable particulate matter)
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	50 μg/m³
IDLH	US IDLH (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup> (respirable dust)
NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> (respirable dust)

8.2.	Appropriate engineering controls	
Approp	riate engineering controls	: Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.
Enviror	mental exposure controls	: Avoid release to the environment.
8.3.	Individual protection measures/Per	onal protective equipment

## Hand protection:

Protective gloves

#### Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

# **Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Physical state	: Solid	
Appearance	: Tan to gray granule in water soluble pouch.	
Color	: Tan to gray	
Odor	: Mild	
Odor threshold	: No data available	
05/10/2018	EN (English US)	3/6

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рН	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: 2100 kg/m3
Relative density	: 2.1
Solubility	: Slightly soluble
Log Pow	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosion limits	: Not applicable
Explosive properties	: Not explosive
Oxidizing properties	: Not applicable

#### 9.2. Other information

No additional information available

<b>SECTION 10: Stability</b>	v and reactivity
	y and reactivity

# 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

Strong oxidizing agents.

## 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Bacillus sphaericus (143447-72-7)		
LD50 oral rat	> 5000 mg/kg	
LD50 dermal rabbit	> 5000 mg/kg	
LC50 inhalation rat (mg/l)	> 2.04 mg/l/4h	
Bacillus thuringiensis ssp. israelensis (68038-71-	-1)	
LD50 oral rat	> 5000 mg/kg	
LD50 dermal rabbit	> 5000 mg/kg	
LC50 inhalation rat (mg/l)	> 2.04 mg/l/4h	
Silica, crystalline - quartz (14808-60-7)		
Listed on IARC (International Agency for Research of	on Cancer), Listed as carcinogen on NTP (National Toxicology Program)	
IARC group	1 - Carcinogenic to humans	
National Toxicity Program (NTP) Status	Known Human Carcinogens	
In OSHA Hazard Communication Carcinogen list?	Yes	

# Safety Data Sheet

GHS-US Properties	Classification
Acute toxicity	Not classified
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitization	May cause an allergic skin reaction.
Germ cells mutagen	Not classified
Carcinogenicity	May cause cancer.
Reproductive toxicity	Not classified
Specific target organ toxicant (single exposure)	Not classified
Specific target organ toxicant (repeated exposure)	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	Not classified

#### Potential health effects

# Inhalation

Acute	: Acute Silicosis can occur with exposures to very high concentrations of respirable crystalline silica over a very short time period, sometimes as short as a few months. The symptoms of acute silicosis include progressive shortness of breath, fever, cough and weight loss. Intact pouches should not pose an exposure risk.
Chronic	: Exposure to respirable crystalline silica is not expected during normal use of this product. However, prolonged overexposure to respirable crystalline silica may cause lung disease (silicosis).
Skin	
Acute	: May cause an allergic reaction in individuals with a sensitivity to Bacillus thuringiensis ssp. israelensis and/or Bacillus sphaericus.
Eye	
Acute	: May cause mild mechanical irritation.
Ingestion	
Acute	: Under normal conditions of use, no health effects are expected.
Carcinogenicity	: Repeated and prolonged exposure may cause cancer. Exposure to silica dust from the finished product is not expected to occur due to the manner in which the constituents are packaged in pouches. Finished product not considered carcinogenic.

# **SECTION 12: Ecological information**

# 12.1. Toxicity

No additional information available

#### 12.2. Persistence and degradability

No additional information available

## 12.3. Bioaccumulative potential

No additional information available

## 12.4. Mobility in soil

No additional information available

# 12.5. Other adverse effects

No additional information available

SECT	ION 13: Disposal considerations
13.1.	Disposal methods

Product/Packaging disposal recommendations

: Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

SECTION 14: Transport information					
	UN number	Proper Shipping Name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	Not regulated	Not regulated	Not regulated	Not regulated	Not applicable
05/40/0040		ENL/Explicit LIO)			E/6

Safety Data Sheet

IMDG	Not regulated	Not regulated	Not regulated	Not regulated	Not applicable
IATA	Not regulated	Not regulated	Not regulated	Not regulated	Not applicable

Bacillus thuringiensis ssp. israelensis (680	38-71-1)	
Listed on the United States TSCA (Toxic Subs	,	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under Chemical Data Reporting Rul (formerly the Inventory Update Reporting Rule), i.e, Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 711).	
Silica, crystalline - quartz (14808-60-7)		
Listed on the United States TSCA (Toxic Subs	tances Control Act) inventory	
FIFRA Labelling		
EPA Registration Number	85685-3	
	ese requirements differ from the classification criteria and hazard information required for safety	
below. The pesticide label also includes other	f non-pesticide chemicals. The hazard information required on the pesticide label is reproduced important information, including directions for use.	
below. The pesticide label also includes other FIFRA Signal word	important information, including directions for use. Caution	
below. The pesticide label also includes other FIFRA Signal word FIFRA Precautionary Statement FIFRA Hazards to Humans and Domestic	important information, including directions for use.	
below. The pesticide label also includes other	important information, including directions for use.         Caution         KEEP OUT OF REACH OF CHILDREN.         Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating,	

No additional information available

SECTION 16: Other information				
Date of issue	: 31 March 2014			
Revision date	: 10 May 2018			
Supersedes	: 14 August 2017			

SDS US (GHS HazCom 2012) - CGP

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