

**Section 1: Identification of the Substance/Mixture and of the Company/Undertaking**

- 1.1 Product Name:** Dry Flo TS  
**Product Code:** 502-712X
- 1.2 Intended Use:** Compound used in customer substance/mixture/product.
- 1.3 Supplier:** Majestic Mountain Sage Inc  
2490 S 1350 W  
Nibley, Utah 84321 - United States of America  
T 435.755.0863 - F 435.755.2108  
[www.TheSage.com](http://www.TheSage.com)
- 1.4 Emergency Telephone Number**  
No additional information available.

**SECTION 2: Hazards Identification**

**2.1 Classification**

**GHS Classification**

Not a hazardous substance or mixture.

**2.2 Label Elements**

**Emergency Overview**

- Appearance: Off-white.
- Physical State: Powder.
- Odor: Characteristic.
- Hazard Summary: Risk of dust explosion.

**GHS Label Elements**

Not hazardous substance or mixture.

## Carcinogenicity

**IARC:** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### 2.3 Hazards Not Otherwise Classified (HNOC)

Not applicable.

### 2.4 Other Information

Not applicable.

## SECTION 3: Composition/Information on Ingredients

### 3.1 Substance

Chemical Name	CAS No.	Weight %
Starch	9005-25-8	>= 70 - < 90%

## SECTION 4: First Aid Measures

### 4.1 Description of First Aid Measures

**General Advice:** No hazards which require special first aid measures.

**Eye Contact:** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If symptoms develop and persist, get medical advice/attention.

**Skin Contact:** Remove contaminated clothing and shoes. Rinse with water. If symptoms develop and persist, get medical advice/attention.

**Inhalation:** Remove to fresh air. Keep patient warm and at rest. Rinse nose and mouth with water. If symptoms develop and persist, get medical advice/attention.

**Ingestion:** Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. If symptoms develop and persist, get medical advice/attention.

#### **4.2 Most Important Symptoms and Effects, Both Acute and Delayed**

**Symptoms:** The symptoms and effects are as expected from the hazards as shown in Section 2. No specific product related symptoms are known.

#### **4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed**

**Note to physicians:** Treat symptomatically.

<b>SECTION 5: Firefighting Measures</b>
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#### **5.1 Extinguishing Media**

**Suitable:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable:** No information available.

#### **5.2 Specific Hazards Arising From the Chemical**

Treat as oil fire. Risks of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding accumulate of dust, e.g. on floors and ledges.

#### **5.3 Protective Equipment and Precautions for Firefighters**

In the event of fire, wear self-contained breathing apparatus.

## SECTION 6: Accidental Release Measures

### 6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Avoid dust formation. Follow safe handling advice and personal protective equipment recommendations.

### 6.2 Environmental Precautions

No special environmental precautions required.

### 6.3 Methods and Material for Containment and Cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

## SECTION 7: Handling and Storage

### 7.1 Precautions for Safe Handling

For personal protection see Section 8. Avoid creating dust. Keep away from heat/sparks/open flames/hot surfaces. No smoking. No special handling advice required. Provide appropriate exhaust ventilation at places where dust is formed. No sparking tools should be used.

### 7.2 Conditions for Safe Storage, Including Any Incompatibilities

Store in original container. Keep in a dry place. Store between 40 - 77°F (5 - 25°C). Keep container tightly closed. No special restrictions on storage with other products. No decomposition if stored and applied as directed.

## SECTION 8: Exposure Controls/Personal Protection

### 8.1 Control Parameters

#### Exposure Guidelines:

Ingredients	CAS No.	Value	Control Parameters	Update	Basis	Form of Exposure
Starch	9005-25-8	TWA	10 mg/m <sup>3</sup>	2007-01-01	ACGIH	
	Further Information	:	Dermatitis A4: Not classifiable as a human carcinogen.			
		TWA	5 mg/m <sup>3</sup>	2013-10-08	NIOSH REL	Respirable

Ingredients	CAS No.	Value	Control Parameters	Update	Basis	Form of Exposure
		TWA	5 mg/m <sup>3</sup>	2013-10-08	NIOSH REL	Respirable
		TWA	10 mg/m <sup>3</sup>	2013-10-08	NIOSH REL	Total
		TWA	15 mg/m <sup>3</sup>	2007-01-01	OSHA Z-1	Total Dust
		TWA	5 mg/m <sup>3</sup>	2007-01-01	OSHA Z-1	Respirable Fraction
		TWA	15 mg/m <sup>3</sup>	1989-01-19	OSHA P0	Total Dust
		TWA	5 mg/m <sup>3</sup>	1987-01-19	OSHA P0	Respirable Dust Fraction
		PEL	10 mg/m <sup>3</sup>	2014-11-26	CAL PEL	Total Dust
		PEL	5 mg/m <sup>3</sup>	2014-11-26	CAL PEL	Respirable Dust Fraction
	Further Information	:	(n): The concentration and percentage of the particulate used for this limit are determined from the fraction passing a size selector with the following characteristics: Aerodynamic Diameter in Micrometers (unit density sphere)..... Percent Passing Selector 0 .....100 1.....97 2 .....91 3 .....74 4 .....50 5 .....30 6 .....17 7 .....9 8 .....5 10 .....1			

Ingredients	CAS No.	Value	Control Parameters	Update	Basis	Form of Exposure
Dust		TWA	50 Million particles per cubic foot	2011-07-1	OSHA Z-3	Total Dust
	Further Information	:	a: Based on impinger samples counted by light-field techniques. d: All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specially by substance name are covered by this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table Z-1. mppcf X 35.3 = million particles per cubic meter - particles per c.c			
Dust		TWA	15 mg/m <sup>3</sup>	2011-07-01	OSHA Z-3	Total Dust
	Further Information	:	d: All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specially by substance name are covered by this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table Z-1.			
Dust		TWA	5 mg/m <sup>3</sup>	2011-07-01	OSHA Z-3	Respirable Fraction
	Further Information	:	d: All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specially by substance name are covered by this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table Z			
Dust		TWA	15 Million particles per cubic foot	2001-07-01	OSHA Z-3	Respirable Fraction
	Further Information	:	d: All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specially by substance name are covered by this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table Z-1. mppcf X 35.3 = million particles per cubic meter - particles per c.c.			

ACGIH:	American Conference of Governmental Industrial Hygienists
BEI:	Biological Exposure Index
MAC:	Maximum Allowable Concentration
NIOSH:	National Institute for Occupational Safety and Health
OEL:	Occupational Exposure Limit
STEL:	Short Term Exposure Limit
TWA:	Time Weighted Average

## 8.2 Appropriate Engineering Controls

Provide appropriate exhaust ventilation at places where dust is formed.

## 8.3 Individual Protection Measures, Such as Personal Protective Equipment

<b>Eye/Face Protection:</b>	Safety glasses.
<b>Skin/Body Protection:</b>	For prolonged or repeated contact, use protective gloves.
<b>Respiratory Protection:</b>	No personal respiratory protective equipment normally required. In the case of dust, vapor or aerosol formation, use respirator with an approved filter.
<b>General Hygiene Considerations:</b>	Handle in accordance with good industrial hygiene and safety practices.

<b>SECTION 9: Physical and Chemical Properties</b>
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## 9.1 Information on Basic Physical and Chemical Properties

<b>Physical State:</b>	Powder
<b>Color:</b>	Off-white
<b>Odor:</b>	Characteristic
<b>Odor Threshold:</b>	No information available
<b><u>Property</u></b>	<b><u>Values</u></b>
<b>pH:</b>	5 - 7.5 at 20% solution
<b>Melting/Freezing Point:</b>	No information available
<b>Boiling Point/Range:</b>	Not applicable
<b>Flash Point:</b>	No information available
<b>Evaporation Rate:</b>	No information available
<b>Flammability (solid, gas):</b>	No information available

<b>Flammability Limit in Air</b>	
<b>Upper Flammability Limit:</b>	No information available
<b>Lower Flammability Limit:</b>	No information available
<b>Vapor Pressure:</b>	No information available
<b>Vapor Density:</b>	No information available
<b>Relative Density:</b>	No information available
<b>Water Solubility:</b>	Slightly soluble
<b>Solubility in Other Solvents:</b>	No information available
<b>Partition Coefficient:</b>	No information available
<b>Auto-ignition Temperature:</b>	No information available
<b>Decomposition Temperature:</b>	No information available
<b>Kinematic Viscosity:</b>	No information available
<b>Dynamic Viscosity:</b>	No information available
<b>Explosive Properties:</b>	Not explosive
<b>Oxidizing Properties:</b>	The substance or mixture is not classified as oxidizing

## 9.2 Other Information

<b>Softening Point:</b>	No information available
<b>Molecular Weight:</b>	No information available
<b>VOC Content (%):</b>	No information available
<b>Density:</b>	No information available
<b>Bulk Density:</b>	No information available
<b>Volatility:</b>	No information available

<b>SECTION 10: Stability and Reactivity</b>
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### 10.1 Reactivity

Stable under normal conditions.

### 10.2 Chemical Stability

Stable under recommended storage conditions.

### 10.3 Possibility of Hazardous Reactions

Dust may form explosive mixture in air.

### 10.4 Conditions to Avoid

None known.

### 10.5 Incompatible Materials

None known.

### 10.6 Hazardous Decomposition Products

No hazardous decomposition products are known.



## SECTION 11: Toxicological Information

### 11.1 Hazard Summary

<b>Acute Toxicity:</b>	Not classified based on available information.
<b>Skin Corrosion/Irritation:</b>	Not classified based on available information.
<b>Eye Damage/Irritation:</b>	Not classified based on available information.
<b>Respiratory Sensitization:</b>	Not classified based on available information.
<b>Skin Sensitization:</b>	Not classified based on available information.
<b>Germ Cell Mutagenicity:</b>	Not classified based on available information.
<b>Carcinogenicity:</b>	Not classified based on available information.
<b>Reproductive Toxicity:</b>	Not classified based on available information.
<b>STOT - Single Exposure:</b>	Not classified based on available information.
<b>STOT - Repeated Exposure:</b>	Not classified based on available information.
<b>Aspiration Hazard:</b>	Not classified based on available information.

### 11.2 Potential Health Effects

<b>Inhalation:</b>	Product dust may be irritating to respiratory system.
<b>Skin:</b>	Product dust may be irritating to skin.
<b>Eyes:</b>	Product dust may be irritating to eyes.
<b>Ingestion:</b>	Not expected to be irritating.

### 11.3 Toxicology Assessment

**Further Information:** No further data available.

**Test Results:**  
Acute Oral Toxicity: LD50 Species: Rat  
No data available.

#### **Carcinogenicity**

<b>IARC:</b>	No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.
<b>OSHA:</b>	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
<b>NTP:</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

#### 11.4 Numerical Measures of Toxicity - Product Information

No information available.

### SECTION 12: Ecological Information

#### 12.1 Ecotoxicity

**Toxicity to Daphnia and  
Other Aquatic Invertebrates:**

EC50: > 100 mg/l  
Exposure Time: 48 h  
Species: Daphnia Magna (Water Flea)

**Toxicity to Algae:**

EC50: > 100 mg/l  
Exposure Time: 72 h  
Species: Pseudokirchneriella subcapitata  
(green algae)

#### 12.2 Persistence and Degradability

Readily biodegradable.

#### 12.3 Bioaccumulation

No information available.

#### 12.4 Other Adverse Effects

No information available.

### SECTION 13: Disposal Considerations

#### 13.1 Waste Treatment Methods

**Disposal of Wastes:**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging:**

Empty remaining contents. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## SECTION 14: Transport Information

### 14.1 International Regulations

<b>ADR:</b>	Not regulated as a dangerous good.
<b>UNRTDG:</b>	Not regulated as a dangerous good.
<b>IATA-DGR:</b>	Not regulated as a dangerous good.
<b>IMDG-Code:</b>	Not regulated as a dangerous good.

**Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code:** Not applicable for product as supplied.

#### **Further Information for Transport:**

Not classified as dangerous in the meaning of transport regulations.

### 14.2 Domestic Regulations

<b>49 CFR:</b>	Not regulated as a dangerous good.
<b>TDG:</b>	Not regulated as a dangerous good.
<b>NOM-002-SCT:</b>	Not regulated as a dangerous good.

## SECTION 15: Regulatory Information

### 15.1 Notification Status

<b>DSL:</b>	YES. All components of this product are on the Canadian DSL.
<b>AICS:</b>	YES. On the inventory, or in compliance with the inventory.
<b>NZIoC:</b>	YES. On the inventory, or in compliance with the inventory.
<b>ENCS:</b>	YES. On the inventory, or in compliance with the inventory.
<b>ISHL:</b>	YES. On the inventory, or in compliance with the inventory.
<b>KECI:</b>	YES. On the inventory, or in compliance with the inventory.
<b>PICCS:</b>	YES. On the inventory, or in compliance with the inventory.
<b>IECSC:</b>	YES. On the inventory, or in compliance with the inventory.
<b>TCSI:</b>	YES. On the inventory, or in compliance with the inventory.
<b>TSCA:</b>	YES. All chemical substances in this product are either listed on the TSCA Inventory or in compliance with a TSCA Inventory exemption.

For explanation of abbreviations, see Section 16.

**TSCA List**

- TSCA 5(a)(2): No substances are subject to a Significant New Use Rule.
- TSCA 12(b): No substances are subject to TSCA 12(b) export notification requirements.

**15.2 US Federal Regulations****EPCRA - Emergency Planning and Community Right-to-Know**

No information available.

**CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazard Categories**

No SARA hazards.

**SARA 302**

This material does not contain any components with a section 302 EHS TPQ.

**SARA 313**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Clean Air Act**

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals subject to disclosure and listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCOMI Intermediate or Final VOC's (40 CFR 60.489).

### **Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. Clean Water Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. Clean Water Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under U.S. Clean Water Act Section 307.

## **15.3 U.S. State Regulations**

### **California Proposition 65**

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

<b>SECTION 16: Other Information</b>
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## **16.1 Full Text of Abbreviations**

ACGIH:	USA. ACGIH Threshold Limit Values (TLV)
CAL PEL:	California permissible exposure limits for chemical contaminants ( Title 8, Article 107)
NIOSH REL:	USA. NIOSH Recommended Exposure Limits
OSHA P0:	USA. OSHA - TABLE z-1 Limits for Air Contaminants - 1910.1000
OSHA Z-1:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
OSHA Z-3:	USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
ACGIH/TWA:	8-hour, time-weight average
CAL PEL/PEL:	Permissible exposure limit
NIOSH REL/TWA:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour work week
OSHA P0/TWA:	8-hour time weighted average
OSHA Z-1/TWA:	8-hour time weighted average
OSHA Z-3/TWA:	8-hour time weighted average

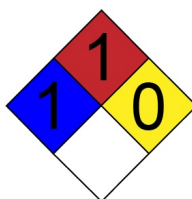
AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN - Standard of the German Institute for Standardization; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

## 16.2 HMIS Classification

<b>Health Hazard:</b>	1
<b>Flammability:</b>	1
<b>Physical Hazards:</b>	0

### 16.3 NFPA Classification

**Health Hazard:** 1  
**Fire Hazard:** 1  
**Reactivity Hazard:** 0



#### Notes:

This safety data sheet is based on the properties of the material known at the time the data sheet was issued. The safety data sheet is intended to provide information for a health and safety assessment of the material and the circumstances, under which it is packaged, stored or applied in the workplace. For such a safety assessment holds no responsibility. This document is not intended for quality assurance purposes.