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, 84321 - United States of America  
T 435.755.0863 - F 435.755.2108  
www.TheSage.com

1.4 Emergency Telephone Number  
No additional information available

SECTION 2: Hazards Identification

2.1 Emergency Overview

| Appearance: | Powder |
| Color: | Off-white |
| Odor: | Characteristic |
| Hazard Summary: | Risk of dust explosion |

2.2 GHS Classification

Not a hazardous substance or mixture

2.3 Label Element

Not a hazardous substance or mixture

2.3 Potential Health Effects

| Inhalation: | Product dust may be irritating to respiratory system. |
| Skin: | Product dust may be irritating to skin. |
Eyes: Product dust may be irritating to eyes.

Ingestion: Not expected to be irritating.

Aggravated Medical Condition: None known.

Symptoms of Overexposure: No information available.

2.4 Carcinogenicity

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

OSHA: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

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.

SECTION 3: Composition/Information on Ingredients

3.1 Hazardous Ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Classification</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Starch</td>
<td>9005-25-8</td>
<td></td>
<td>70-90</td>
</tr>
</tbody>
</table>

SECTION 4: First Aid Measures

4.1 Description of First Aid Measures

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

Inhalation: Remove to fresh air. Keep patient warm and at rest. Rinse nose and mouth with water.

Skin Contact: Remove contaminate clothing and shoes. Rinse with water.
**Eye Contact:**
Rinse with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing.

**Ingestion:**
Clean mouth with water and afterwards, drink plenty of water. Never give anything by mouth to an unconscious person.

### 4.2 Notes to Physician

**Symptoms:** No information available.

**Risks:** No information available.

**Treatment:** No information available.

### SECTION 5: Firefighting Measures

#### 5.1 Extinguishing media

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

**Unsuitable:** No information available.

#### 5.2 Special Hazards Arising from the Substance or Mixture

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

**Combustible Products:** No hazardous combustion products are known

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

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

#### 5.4 Further Information

Standard procedure for chemical fires.

See also Section 9. Physical and chemical properties: Safety Data.
SECTION 6: Accidental Release Measures

6.1 Personal Precautions
   Avoid dust formation.

6.2 Environmental Precautions
   No special environmental precautions required.

6.3 Method and Material for Containment and Clean-up
   Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Additional Advice
   For personal protection see Section 8.

SECTION 7: Handling and Storage

7.1 Handling

   Advice of 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.

   Advice on Protection Against Fire and Explosion: Provide appropriate exhaust ventilation at places where dust is formed. No sparking tools should be used.

7.2 Storage

   Requirements for Storage Areas and Containers: Store in original container. Keep in a dry place. Store between 40-77°F (5-25°C) Keep container tightly closed.

   Advice on Common Storage: No special restrictions on storage with other products.

   Other Data: No decomposition if stored and applied as directed.
SECTIONS 8: Exposure Controls/Personal Protection

8.1 Exposure Guidelines

Ingredients with workplace control parameters

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS-No.</th>
<th>Value</th>
<th>Control parameters</th>
<th>Update</th>
<th>Basis</th>
<th>Form of exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Starch</td>
<td>9005-25-8</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>2007-01-01</td>
<td>ACGIH</td>
<td></td>
</tr>
</tbody>
</table>

Further Information: Dermatitis A4: Not classifiable as a human carcinogen.

<table>
<thead>
<tr>
<th>Value</th>
<th>Control parameters</th>
<th>Update</th>
<th>Basis</th>
<th>Form of exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>TWA</td>
<td>5 mg/m³</td>
<td>2013-10-08</td>
<td>NIOSH REL</td>
<td>Respirable</td>
</tr>
<tr>
<td>TWA</td>
<td>10 mg/m³</td>
<td>2013-10-08</td>
<td>NIOSH REL</td>
<td>Total</td>
</tr>
<tr>
<td>TWA</td>
<td>15 mg/m³</td>
<td>2007-01-01</td>
<td>OSHA Z-1</td>
<td>Total dust</td>
</tr>
<tr>
<td>TWA</td>
<td>5 mg/m³</td>
<td>2007-01-01</td>
<td>OSHA Z-1</td>
<td>Respirable fraction</td>
</tr>
<tr>
<td>TWA</td>
<td>15 mg/m³</td>
<td>1989-01-19</td>
<td>OSHA P0</td>
<td>Total dust</td>
</tr>
<tr>
<td>TWA</td>
<td>5 mg/m³</td>
<td>1989-01-19</td>
<td>OSHA P0</td>
<td>respirable dust fraction</td>
</tr>
</tbody>
</table>

STEL: Short term exposure limit
TWA: Time weighted average

8.2 Engineering Measures
Provide appropriate exhaust ventilation at places where dust is formed.

8.2 Personal Protective Equipment

Eye/Face Protection: Safety glasses

Hand Protection: Glove material: For prolonged or repeated contact use protective gloves. Protective gloves complying with EN 374.
Respiratory Protection: No personal respiratory protective equipment normally required. In the case of dust, vapor or aerosol formulation use respirator with an approved filter. Half mask with a particle filter P2 (EN143)

Hygiene Measures: General industrial hygiene practice.

8.3 Environmental Exposure Controls
No special environmental precautions required.

SECTION 9: Physical and Chemical Properties

9.1 Appearance

Form: Powder
Color: Off-white
Odor: Characteristic
Odor Threshold: No data available

9.2 Safety Data

pH: 3.5 - 6 at 20% solution
Melting Point/Range: No data available
Boiling Point/Range: Not applicable
Flash Point: Not applicable
Evaporation Rate: Not applicable
Flammability (Solid, gas): Not applicable
Lower Explosion Limit: No data available
Upper Explosion Limit: No data available
Vapor Pressure: Not applicable
Relative Vapor Density: Not applicable
Relative Density: No data available
Water Solubility: Slightly soluble
Solubility in Other Solvents: No data available
Partition Coefficient
n-octanol/water: No data available
Autoignition Temperature: No data available
Decomposition Temperature: No data available.
Viscosity, Kinematic: Not applicable
Explosive Properties: Not explosive
Oxidizing Properties: The substance/mixture is not classified as oxidizing.
SECTION 10: Stability and Reactivity

10.1 Conditions or Materials to Avoid
None known.

10.2 Hazardous Decomposition products
No hazardous decomposition products are known.

Thermal Decomposition: No data available

10.3 Reactivity
Stable under normal conditions

10.4 Chemical Stability
Stable under recommended storage conditions.

10.5 Hazardous Reactions
Dust may form explosive mixture in air.

SECTION 11: Toxicological Information

11.1 Product Information

Toxicology Assessment: No further data available

Test Result

Acute Oral Toxicity: LD50: Species: Rat
No data available

Skin Irritation: Result: No skin irritation
Method: EPISKIN Human Skin Model Test

Eye Irritation: Result: No eye irritation
11.2 Carcinogenicity

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

**OSHA:** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**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.

11.3 Toxicology Data for the Ingredients

**Component:** Starch

**Acute Oral Toxicity:**
- LD50: > 5,000 mg/kg
- Species: Rat
- Literature data.

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**SECTION 12: Ecological Information**

**PRODUCT INFORMATION:**

12.1 Ecotoxicology Assessment

**Additional Ecological Information:** None known.

**Test Result**

**Ecotoxicity Effects**

**Toxicity to Daphnia and Other Aquatic Invertebrates:**
- ED50 > 100mg/l
- Exposure time: 48 h
- Species: Daphnia magna (Water flea)
- Method: OECD Test Guideline 202

**Toxicity to Algae:**
- EC50: >100 mg/l
- Exposure time: 72 h
- Species: Pseudokirchneriella subcapitata (Green algae)
- Method: OECD Test Guideline 201
12.2 Persistence and Degradability

- **Bioaccumulation:** No data available
- **Mobility:** No data available
- **Biodegradability:** Result: Readily Biodegradable
  Method: OECD Test Guideline 301B

12.3 Further Information on Ecology

- **Biochemical Oxygen Demand (BOD):** No data available

12.4 Hazardous to the Ozone Layer

- **Regulation:** 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
- **Remarks:** This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App. A + B).

**INGREDIENT INFORMATION:**

- **Component:** Starch

12.5 Ecotoxicity Effects

- **Toxicity to Fish:** LC50: Exposure time: 96h
  Species: Fish
  No data available

12.6 Persistence and Degradability

- **Bioaccumulation:** Bio accumulation is unlikely
- **Mobility:** No data available
- **Biodegradability:** No data available

12.7 Further Information on Ecology

- **Biochemical Oxygen Demand (BOD):** No data available
SECTION 13: Disposal Considerations

13.1 Waste Disposal

**Product Disposal Instructions:** Waste must be disposed of in accordance with federal, state, and local environmental control regulations.

**Contaminated Packaging Disposal Instructions:** 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 Regulation

**ADR:** Not regulated as dangerous goods.
**UNRTDG:** Not regulated as dangerous goods.
**IATA-DGR:** Not regulated as dangerous goods.
**IMDG-Code:** Not regulated as dangerous goods.

14.2 Transporting in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

14.3 Further Information for Transport

Not classified as dangerous in the meaning of transport regulations

14.4 Domestic Regulation

**49 CFR:** Not regulated as dangerous goods.
**TDG:** Not regulated as dangerous goods.
**NOM-002-SCT:** Not regulated as dangerous goods.
15.1 Notification Status

CH INV: NO. Not in compliance with the inventory
TSCA: YES> All chemical substances in this product are either listed on the TSCA Inventory or in compliance with a TSCA inventory exemption.
DSL: YES. All components of this product are on the Canadian DSL.
AICS: YES. On the inventory, or in compliance with the inventory.
NZIoC: YES. On the inventory, or in compliance with the inventory.
ENCS: YES. On the inventory, or in compliance with the inventory.
ISHL: YES. On the inventory, or in compliance with the inventory.
KECI: YES. On the inventory, or in compliance with the inventory.
PICCS: YES. On the inventory, or in compliance with the inventory.
IECSC: YES. On the inventory, or in compliance with the inventory.

For explanations of abbreviations, see Section 16.

TSCA list: Not relevant
OSHA Hazards: Combustible dust

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.

SARA311/312 Hazards: No SARA Hazards
SARA 302: No chemicals in this material are subjects to the reporting requirements of SARA Title III, Section 302.
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 12 (40 CFR 61).
This product does not contain any chemicals subject to disclosure and listed under the U.S. Clean Air Act Section 112® for Accidental release prevention 94 CFR 68.130, Subpart F).
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI 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 Chemical listed under the U.S. Clean Water Act, Section 311, Table 117.3.
This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307.

**California Prop. 65:** This product does not contain any chemicals known to the State of California to cause cancer, birth defects, of any other reproductive defects.

### 16.1 Further Information

**HMIS Classification:**
- Health Hazard: 1
- Flammability: 1
- Physical Hazards: 0

**NFPA Classification:**
- Health Hazard: 1
- Fire Hazard: 1
- Reactivity Hazard: 0
### 16.2 Notification Status Explanation

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>REACH</td>
<td>1907/2006 (EU)</td>
</tr>
<tr>
<td>CH INV</td>
<td>Switzerland. New notified substances and declared preparations</td>
</tr>
<tr>
<td>TSCA</td>
<td>United States TSCA Inventory</td>
</tr>
<tr>
<td>DSL</td>
<td>Canadian Domestic Substances List (DSL)</td>
</tr>
<tr>
<td>AICS</td>
<td>Australia Inventory of Chemical Substances (AICS)</td>
</tr>
<tr>
<td>NZIoC</td>
<td>New Zealand. Inventory of Chemical Substances</td>
</tr>
<tr>
<td>ENCS</td>
<td>Japan. ENCS - Existing and New Chemical Substances Inventory</td>
</tr>
<tr>
<td>ISHL</td>
<td>Japan. ISHL - Inventory of Chemical Substances</td>
</tr>
<tr>
<td>KECI</td>
<td>Korea. Korean Existing Chemicals Inventory (KECI)</td>
</tr>
<tr>
<td>PICCS</td>
<td>Phillipines Inventory of Chemicals and Chemical Substances (PICCS)</td>
</tr>
<tr>
<td>IECSC</td>
<td>China. Inventory of existing Chemical Substances in China (IECSC)</td>
</tr>
</tbody>
</table>

**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.