

## Tapioca Starch

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 /  
March 26, 2012 / Rules and Regulation

Revision Date: 08-25-2015  
Supersedes: 11-14-2012

### 1 PRODUCT & COMPANY IDENTIFICATION

<b>Product Name:</b> Tapioca Starch	<b>Distributor:</b> MakingCosmetics.com Inc.
<b>Synonyms:</b>	<b>Address:</b> 10800 231 <sup>st</sup> Way NE
<b>INCI Name:</b> Tapioca starch	Redmond, WA 98053 (USA)
<b>CAS Number:</b> 9005-25-8	<b>Phone / Fax:</b> 425-292-9502 / 425-292-9601
<b>Formula:</b> (C <sub>6</sub> H <sub>10</sub> O <sub>5</sub> ) <sub>n</sub>	<b>Web:</b> <a href="http://www.makingcosmetics.com">www.makingcosmetics.com</a>
<b>Product Form:</b> Powder	
<b>Product Use:</b> Cosmetic use	<b>Emergency Telephone Number:</b> 1-800-424-9300 (Chemtrec)

### 2 HAZARDS IDENTIFICATION

<b>GHS Classification:</b>	Not classified												
<b>GHS Labeling:</b>	Not classified												
<b>GHS Hazard Pictograms:</b>	None												
<b>GHS Hazard Statements:</b>	None												
<b>GHS Precautionary Statements:</b>	None												
<b>Potential Health Hazards:</b>	Eyes: May be irritant. Inhalation: Not expected to be irritant. Skin: May be irritant. Ingestion: May be irritant.												
<b>NFPA Ratings (704):</b>	<table border="0"> <tr> <td style="background-color: #0070C0; color: white;">Health</td> <td style="text-align: center;">1</td> <td>Minimal</td> </tr> <tr> <td style="background-color: #FF0000; color: white;">Flammability</td> <td style="text-align: center;">1</td> <td>Minimal</td> </tr> <tr> <td style="background-color: #FFFF00; color: black;">Reactivity</td> <td style="text-align: center;">0</td> <td>No Significant Hazard</td> </tr> <tr> <td>Specific Hazard</td> <td style="text-align: center;">n/a</td> <td></td> </tr> </table>	Health	1	Minimal	Flammability	1	Minimal	Reactivity	0	No Significant Hazard	Specific Hazard	n/a	
Health	1	Minimal											
Flammability	1	Minimal											
Reactivity	0	No Significant Hazard											
Specific Hazard	n/a												

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS No.</u>	<u>Weight %</u>	<u>Molecular Weight</u>
Tapioca starch	9005-25-8	Not available	Data not available

### 4 FIRST AID MEASURES

<b>Eyes:</b>	Flush eyes with water for 15 minutes. Seek medical advice should irritation occur and persist.
<b>Inhalation:</b>	Remove from area of exposure. If breathing is difficult, give oxygen. Seek medical attention if symptoms persist.
<b>Skin:</b>	Wash off skin with soap and water. Get medical attention if irritation develops or persists.
<b>Ingestion:</b>	Do not induce vomiting unless directed to do so by medical personnel. Contact physician immediately if large quantities ingested.

### 5 FIRE-FIGHTING MEASURES

<b>Suitable (and unsuitable) extinguishing media:</b>	Dry chemical, CO <sub>2</sub> , water fog, foam.
<b>Special protective equipment &amp; precautions for firefighters:</b>	No special procedures required. Fire & Explosion Hazards: Product is a finely divided combustible powder and as such constitutes a potential fire hazard. Keep workplace dust levels below the stipulated exposure limits. Prohibit smoking and open flames. Avoid sparks or other sources of static electricity. Minimum ignition temperature of dust cloud- approx. 390°C. Minimum explosive concentration approx. 70 mg/l. Minimum energy to ignite cloud by electrical spark- approx. 0.06 joules.
<b>Flash Points:</b>	Not available
<b>Specific hazards arising from the chemical:</b>	Not available

### 6 ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment & emergency procedures:** See section 8 for recommendations on the use of personal protective equipment.

**Environmental precautions:** Do not allow product to reach sewage system or any water course, basements or confined areas.

**Methods and material for containment and cleaning up:** Isolate spill area immediately. Keep unauthorized personnel away. Ventilate closed spaces before entering. Do not walk through spilled material. Surface may become slippery after spillage. Use vacuum or broom and remove to disposal container.

## 7 HANDLING & STORAGE

**Precautions for safe handling:** Mechanical handling of the powder on inadequately grounded equipment can result in static electrical discharges. All handling equipment must be properly grounded. Sensitive to static electricity. Use care to minimize dust generation in normal use conditions. Avoid dispersing the powder in the air. Prevent buildup of powder on surfaces.

**Conditions for safe storage, incl. any incompatibilities:** Store in a cool, dry area away from heat, sparks or fire.

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Component</u>	<u>Exposure Limits</u>	<u>Basis</u>	<u>Entity</u>
Tapioca starch	Not determined		

TWA: Time Weighted Average over 8 hours of work.  
 TLV: Threshold Limit Value over 8 hours of work.  
 REL: Recommended Exposure Limit  
 PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes.  
 IDLH: Immediately Dangerous to Life or Health  
 WEEL: Workplace Environmental Exposure Levels  
 CEIL: Ceiling

**Personal Protection:**

**Eyes:** Safety glasses, goggles or face shield recommended for eye protection.

**Inhalation:** Not required but may wear a NOISH approved organic vapor/mist respirator or mask.

**Body:** Gloves and lab coat recommended to prevent skin contact.

**Other:** Employees must practice good personal hygiene, washing exposed areas of skin several times daily and laundering contaminated clothing before re-use.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance, Physical State:</b>	Powder	<b>Vapor Pressure:</b>	Not available
<b>Odor:</b>	Starch odor	<b>Vapor Density:</b>	Not available
<b>Taste:</b>	Not available	<b>Evaporation Rate:</b>	Not available
<b>Color:</b>	Off-white	<b>Flammability:</b>	Not available
<b>Molecular Weight:</b>	Not available	<b>Upper/lower Explosive Limit:</b>	Not available
<b>pH (1% sol. in water)</b>	6-8	<b>Solubility:</b>	Soluble in water
<b>Boiling Point:</b>	Not available	<b>Flash Point:</b>	Not available
<b>Melting Point:</b>	Not available	<b>Specific Gravity:</b>	1.5

## 10 STABILITY AND REACTIVITY

**Reactivity:** Product is stable

**Chemical Stability:** Product is stable

**Hazardous Polymerization:** Will not occur

**Conditions to Avoid:** None known

**Incompatible Materials:** Not available

**Hazardous Decomposition Products:** Does not undergo spontaneous decomposition. Typical combustion products include carbon monoxide, carbon dioxide, nitrogen and water.

## 11 TOXICOLOGICAL INFORMATION

**Acute Toxicity:** Acute oral toxicity not available

**Skin:** Can be an irritant

<b>Eyes:</b>	Can be an irritant
<b>Respiratory:</b>	Data not available
<b>Ingestion:</b>	Data not available
<b>Carcinogenicity:</b>	Not available
<b>Teratogenicity:</b>	Not available
<b>Germ Cell Mutagenicity:</b>	Not available
<b>Embryotoxicity:</b>	Not available
<b>Specific Target Organ Toxicity:</b>	Not available
<b>Reproductive Toxicity:</b>	Not available
<b>Respiratory/Skin Sensitization:</b>	None known

## 12 ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	Not available
<b>Persistence and Degradability:</b>	Possibly hazardous short term degradation products are not likely. Long term degradation products may arise.
<b>Bioaccumulative Potential:</b>	Not available
<b>Mobility in Soil:</b>	Not available
<b>PBT and vPvB Assessment:</b>	Not available
<b>Other Adverse Effects:</b>	Not available

## 13 DISPOSAL CONSIDERATIONS

<b>Waste Residues:</b>	Storage and disposal must be in accordance with applicable local, state & federal disposal regulations. Compliance with applicable laws are the responsibility solely of the generator.
<b>Product Containers:</b>	Dispose of in a manner in accordance with local and national regulations.

The information in section 13 is for the product as shipped. Use and/or alterations to the product may change the characteristics of the material and alter the waste classification and proper disposal methods

## 14 TRANSPORT INFORMATION

<b>DOT (Dept. of Transportation, USA):</b>	Not regulated
<b>TDG (Transportation of Dangerous Goods, Canada):</b>	Not regulated
<b>IMDG (International Maritime Dangerous Goods):</b>	Not regulated
<b>IATA (International Air Transport Association):</b>	Not regulated
<b>ICAO (International Civil Aviation Organization):</b>	Not regulated

## 15 REGULATORY INFORMATION

<b>TSCA Inventory Status:</b>	No data available
<b>DSCL (EEC):</b>	This product is not classified according to the EU regulations. Not applicable.
<b>WHMIS (Canada):</b>	Not controlled under WHMIS (Canada)

## 16 OTHER INFORMATION

<b>Revision Date:</b>	08-25-2015
<b>Compliance:</b>	This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200
<b>Disclaimer:</b>	This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.