

Revision Date: 24-Jun-2024

Supersedes: 10-Sep-2021

Tapioca Starch

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

1 PRODUCT & COMPANY IDENTIFICATION

Product Name: Tapioca Starch
Synonyms: No data available
Tapioca Starch, Water,
Polymethylsilsesquioxane

CAS Number: 9005-25-8, 7732-18-5, 68554-70-1

Formula: No data available

Product Form: Solid

Product Use: Cosmetic use

Distributor: MakingCosmetics Inc. Address: 10800 231st Way NE

Redmond, WA 98053 (USA)

Phone / Fax: 425-292-9502 / 425-292-9601 Web: www.makingcosmetics.com

Emergency Telephone Number: 1-800-424-9300 (Chemtrec)

2 HAZARDS IDENTIFICATION

GHS Classification: Combustible dust
GHS Signal Word: WARNING
GHS Hazard Pictograms: None.

GHS Hazard Statements: If small particles are generated during further processing, handling or by other means,

may form combustible dust concentrations in air.

GHS Precautionary Statements: None

Potential Health Hazards: Eyes: May be an irritant.

Inhalation: May be an irritant. Skin: May be an irritant.

Ingestion: Not expected to be an irritant.

NFPA Ratings (704):

Health

0 Minimal

Flammability 1 Slight
Reactivity 0 Minimal

Reactivity 0 M

Specific Hazard N/A
HMIS Ratings: Health 0 Minimal

Flammability 2 Moderate

Physical 0 Minimal Hazards

3 COMPOSITION/INFORMATION ON INGREDIENTS

Component CAS No. Weight % Molecular Weight 9005-25-8 Tapioca Starch ≥84% Not Available Not Available Water 7732-18-5 ≤14% Polymethylsilsesquioxane 68554-70-1 ≤2% Not Available

4 FIRST AID MEASURES

Eyes: Rinse with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing.

Seek medical attention if necessary.

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

necessary.

Skin: Remove contaminated clothing and shoes. Rinse with water. Seek medical attention if necessary.

Ingestion: Clean mouth with water and drink afterwards plenty of water. Do Not Induce Vomiting. Never give anything by

mouth to an unconscious person.

Physician No hazards which require special first aid measures. No specific product related symptoms are known. Treat

Notes: symptomatically.



FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media: Special protective equipment & precautions for firefighters:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. No unsuitable extinguish media listed.

Wear self-contained breathing apparatus and full protective clothing, including eye protection and boots. Treat as oil fire. Risks of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding accumulation of dust, e.g. on floors and ledges.

Follow standard procedure for chemical fires.

Specific hazards arising from the chemical:

Dust may form explosive mixture in air. See also Stability and reactivity section.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment & emergency procedures: Avoid dust formation. Follow safe handling advice. Do not try to clean up the leak without proper protective equipment. See section 8 for recommendations on the use of personal protective equipment.

Environmental precautions:

Avoid liquid release into sewers/public water/environment. Notify environmental

authorities in case of leak.

Methods and material for containment and cleaning up: Sweep up and shovel. Keep in suitable, closed containers for disposal. Dispose of absorbed material in accordance with the regulations.

HANDLING & STORAGE

Precautions for safe handling:

Conditions for safe storage, incl. any incompatibilities:

Avoid creating dust. Keep away from heat, sparks, open flames, hot surfaces. No smoking. Provide appropriate exhaust ventilation at places where dust is formed. No sparking tools should be used. Use good personal hygiene practice. See section 8 for recommendations on the use of personal protective equipment. Store in original container. Keep in a dry place. Store between 40-77 F (5-25 C). Keep container tightly closed. No decomposition if stored and applied as directed. Store away from incompatible materials (see section 10 for incompatibilities).

EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	Exposure Limits	<u>Basis</u>	<u>Entity</u>
Starch (9005-25-8)	10 mg/m3	PEL (total dust)	CAL PEL
	5 mg/m3	PEL (respirable dust fraction)	CAL PEL
	10 mg/m3	TWA	ACGIH
	5 mg/m3	TWA (respirable)	NIOSH REL
	10 mg/m3	TWA (total)	NIOSH REL
	15 mg/m3	TWA (total dust)	OSHA Z-1
	5 mg/m3	TWA (respirable fraction)	OSHA Z-1
	15 mg/m3	TWA (total dust)	OSHA PO
	5 mg/m3	TWA (respirable dust fraction)	OSHA PO
Dust	10 mg/m3	PEL (total dust)	CAL PEL
	5 mg/m3	PEL (respirable dust fraction)	CAL PEL
	Further Info:	r zz (respirable dase fraction)	0,12 1 22
	(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	
		. 50 5	
		. 17 7	
		. 5 10	
	15 mg/m3 Further Info:	TWA (total dust)	OSHA Z-3
	d: All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by		
	this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table Z-1.		
	5 mg/m3	TWA (respirable fraction)	OSHA Z-3
	Further Info:		
	d: All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by		
this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table Z-1.			it in Table 4-1.

TWA (total dust)

50 Million particles per cubic

OSHA Z-3



foot

Further Info:

a: Based on impinger samples counted by light-field techniques. d: All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically 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

15 Million particles per cubic

TWA (respirable fraction)

foot

Further Info:

a: Based on impinger samples counted by light-field techniques. d: All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically 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

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 \boldsymbol{x} minutes. IDLH: Immediately Dangerous to Life or Health WEEL: Workplace Environmental Exposure Levels

CEIL: Ceiling

Personal Protection:

Eves: Wear safety glasses.

No personal respiratory protective equipment normally required. In the case of dust, vapor, or aerosol formation, Inhalation:

use respirator with an approved filter. Half mask with a particle filter P2 (EN 143).

For prolonged or repeated contact use protective gloves and full protective clothing. Body:

Provide appropriate exhaust ventilation at places where dust is formed. Use good personal hygiene practices. Other:

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

Flash Point:

Specific Gravity:

Water Solubility:

Solid/Gas Flammability:

Upper/lower Explosive Limit:

Auto-Ignition Temperature:

Decomposition Temperature:

PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Powder Vapor Pressure: Not applicable Odor: Characteristic Vapor Density: Not applicable Odor Threshold: No data available **Evaporation Rate:** Not applicable

Color: Off-white

Molecular Weight: No data available

5 - 7.5 (Concentration: 20%)

Boiling Point: Not applicable Melting/Freezing Point: No data available Relative Density: No data available Partition Coefficient: n-No data available

octanol/water:

Viscosity: Not applicable

Oxidizing Properties: Not classified as oxidizing

Dust Deflagration Index (Kst): 140.4 m.b_/s **Explosive Properties:** Not explosive

Combustibility: May form combustible dust in

air.

Not classified as flammable

No data available

No data available

No data available

No data available

Not applicable

Slightly soluble

Dust Explosion Class: St1

STABILITY AND REACTIVITY

Reactivity: Stable under normal conditions.

Chemical Stability: Stable under recommended storage conditions.

Hazardous Polymerization: No data available. Conditions to Avoid: None known. Incompatible Materials: None known.

Hazardous Decomposition Products: No hazardous decomposition products are known.

Possible Hazardous Reactions: Dust may form explosive mixture in air.

TOXICOLOGICAL INFORMATION

Acute Toxicity: Not classified based on available information. Skin: Product dust may be irritating to skin.

Eyes: Product dust may be irritating to eyes.

Inhalation: Product dust may be irritating to respiratory system.

Ingestion: Not expected to be irritating.

(Rat) Acute Oral Toxicity; Component: Starch; LD50; > 5,000 mg/kg. Information taken from



reference works and literature.

Carcinogenicity: Not classified based on available information.

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.
Not classified based on available information.
Not classified based on available information.
Not classified based on available information.

Specific Target Organ Toxicity:
Skin Corrosion/Irritation:
Serious Eye Damage/Irritation:
Respiratory/Skin Sensitization:
Reproductive Toxicity:
Aspiration Hazard:
Not classified based on available information.

Over Exposure Symptoms: The symptoms and effects are as expected from the hazards as shown in section 2. No specific

product related symptoms are known.

12 ECOLOGICAL INFORMATION

Germ Cell Mutagenicity:

Ecotoxicity: No data available.

Aquatic Vertebrate: No data available.

Aquatic Invertebrate: (Daphnia magna) EC50: >100 mg/l; 48 hours.

Terrestrial: (Pseudokirchneriella subcapitata) EC50: > 100 mg/l; 72 hours. **Persistence and Degradability:** Readily biodegradable. Method: OECD Test Guideline 301B.

Bioaccumulative Potential: Bioaccumulation is unlikely.

Mobility in Soil:

PBT and vPvB Assessment:

Other Adverse Effects:

No data available.

No data available.

Hazards 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).

13 DISPOSAL CONSIDERATIONS

Waste Residues: Users should review their operations in terms of the applicable federal/national or local regulations and

consult with appropriate regulatory agencies, if necessary, before disposing of waste product.

Product Containers: Empty remaining contents. Empty containers should be taken to an approved waste handling site for

recycling or disposal. Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies, if necessary, before disposing of waste

product container.

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

DOT (Dept. of Transportation, USA):

TDG (Transportation of Dangerous Goods, Canada):

Not regulated as a dangerous good.

Not regulated as a dangerous good.

Not regulated as a dangerous good.

IATA (International Air Transport Association):

ADR (Road Transportation):

Hot regulated as a dangerous good.

Not regulated as a dangerous good.

Not regulated as a dangerous good.

Not regulated as a dangerous good.

NOM-002-SCT

Not regulated as a dangerous good.

Not regulated as a dangerous good.

Not applicable for product as supplied.

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

15 REGULATORY INFORMATION



TSCA Inventory Status: Yes. On the inventory, or in compliance with the inventory. No substances are subject to a

Significant New Use Rule. No substances are subject to TSCA 12(b) export notification

requirements.

CERCLA Reportable Quantity:

SARA 304:

This material does not contain any components with a CERCLA RQ. This material does not contain any components with a section 304 extremely hazardous substances

reportable quantity.

SARA 302: This material does not contain any components with a section 302 extremely hazardous substances

threshold planning quantity.

SARA 311/312 Hazards:

Combustible dust.

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 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).

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 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. CleanWater Act,

Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act,

Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307 This product does not contain any priority pollutants related to the U.S. Clean Water Act. This product does not contain any chemicals that are listed as Maine Chemicals of High Concern.

ME Chemicals of High

Concern:

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.

Canada (DSL): Yes. On the inventory, or in compliance with the inventory. China (IECSC): Yes. On the inventory, or in compliance with the inventory. Australia (AIIC): Yes. On the inventory, or in compliance with the inventory. Japan (ENCS): Yes. On the inventory, or in compliance with the inventory. Japan (ISHL): Yes. On the inventory, or in compliance with the inventory. Philippines (PICCS): Yes. On the inventory, or in compliance with the inventory. Taiwan (TCSI): Yes. On the inventory, or in compliance with the inventory. Korea (KECI): Yes. On the inventory, or in compliance with the inventory.

New Zealand (NZloC): Yes. On the inventory, or in compliance with the inventory.

OTHER INFORMATION

Additional ACGIH: USA. ACGIH Threshold Limit Values (TLV)

Abbreviations: CAL PEL: California permissible exposure limits for chemical contaminants (Title 8, Article 107)

NIOSH REL/TWA: USA. Time-weighted average concentration for up to a 10-hour workday during 40hr workweek.

OSHA PO: 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

LD50: Lethal Dose to 50% of a test population ECx: Concentration associated with x% response.

Revision Date: 24-Jun-2024

Compliance: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication

Standard 29 CFR 1910.1200

Disclaimer: 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 suitableness & completeness of such information for his

own particular use.