

# MATERIAL SAFETY DATA SHEET CORN STARCH POWDER

# MSDS

## SECTION 1: PRODUCT IDENTIFICATION

**Synonyms:** CORN STARCH POWDER, MAIZE STARCH

**Molecular Weight:** It is polymer of Glucose (Approximate: More than 4000)

**Chemical Formula:** Can be written as  $(C_6H_{10}O_5)_n$

## SECTION 2: COMPOSITION/INFORMATION INGREDIENTS

Ingredient	Percent	Hazardous
Carbohydrates (As $C_6H_{10}O_5$ )	99.00%	Not Found

## SECTION 3: HAZARDS IDENTIFICATION

### Emergency Overview

As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.

### Rated on the 1 to 10 scale as

- **Health rating:** 0 – None.
- **Flammability rating:** 0 – Slight.
- **Explosive Hazards:** Powdered dust particle forms an explosive mixture with air. Minimum explosive limit 40gms/m<sup>3</sup>, no defined Maximum Limit.
- **Reactivity rating:** 0 – None.
- **Contact rating:** 0 – None.
- **Lab protective equipment:** Goggles, Lab Coat, Hand gloves.
- **Storage color code:** Orange (General Storage).

### Potential Health Effect

- **Inhalation:** No adverse health effect expected from inhalation.
- **Ingestion:** No adverse health effect expected from ingestion.
- **Skin contact:** No adverse health effect expected.
- **Eye contact:** No adverse health effect expected.
- **Chronic exposure:** Breathing dust may cause irritation to respiratory track. Prolonged/ repeated exposure may cause skin and eye irritation.
- **Aggravation of pre-existing condition:** No information found.

## SECTION 4: FIRST AID MEASURES

- **Inhalation:** Move to fresh air. Get medical attention for any breathing difficulty.
- **Ingestion:** If large volumes were swallowed, give water to drink and get medical assistance.
- **Skin contact:** Flush exposed area under running water and Wash exposed area with soap and water. Get medical advice if irritation develops.
- **Eye contact:** Wash thoroughly with running water. Get medical assistance if irritation develops.

## SECTION 5: FIRE FIGHTING MEASURES

- **Fire:** As the most organic Liquids, pastes, and solids, fire is possible at elevated temperature or by contact with an ignition source.
- **Fire Extinguishing Media:** Water spray, dry chemical, appropriate foam, or carbon dioxide.
- **Special Information:** In the event of a fire, wear full protective clothing and OHS approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

Remove all sources of ignition. Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Clean up spills in a manner that does not disperse dust into the air. Use non-sparking tools and equipment. Reduce airborne dust and prevent scattering by moistening with water. Pick up spill for recovery or disposal and place in a closed container.

## SECTION 7: HANDLING AND STORAGE

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (liquid, solids); observe all warnings and precautions listed for the product.

## SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

<b>Airborne Exposure Limits:</b>	None established.
<b>Ventilation System:</b>	Not expected to require any special ventilation.
<b>Personal Respirators (NIOSH Approved):</b>	Not expected to require personal respirator usage.
<b>Skin Protection:</b>	Wear protective gloves and clean body-covering clothing.
<b>Eye Protection:</b>	Use chemical safety goggles.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Trademark Name	CORN STARCH POWDER
<b>Appearance</b>	Fine White Powder, Odorless, Free from Adulterants & Fermented Smell
<b>Moisture</b>	13% Max.
<b>Viscosity of 2% paste at 75°C in Brookfield Viscometer</b>	32.0 - 36.0
<b>pH (10% Aqueous Solution)</b>	4 to 7
<b>Protein</b>	0.6 % Max. on DB
<b>Total Ash</b>	0.4% Max. on DB
<b>Sulphur Dioxide</b>	300 ppm Max
<b>Acidity for 5gm using NaOH</b>	1.00 ml.
<b>Starch</b>	85.0% Min. on DB
<b>Soluble</b>	0.3 - 0.5%
<b>Solubility</b>	Practically Insoluble in Water
<b>Mesh Size-pass through 85 Mesh</b>	98%

## SECTION 10: STABILITY AND REACTIVITY

**Stability:** Stable under ordinary conditions of use and storage.

**Hazardous Decomposition Products:** Carbon dioxide and carbon monoxide may form when heated to decomposition.

**Hazardous Polymerization:** Will not occur.

**Incompatibilities:** Strong oxidizers.

**Conditions to Avoid:** Heat, ignition and incompatibles.

## SECTION 11: TOXICOLOGICAL INFORMATION

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### Acute effects

May be harmful by inhalation, ingestion, or skin absorption. May cause irritation.

**Starch Toxicity Data:** No information found.

## SECTION 12: ECOLOGICAL INFORMATION

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**Environmental Fate:** No information found.

**Environmental Toxicity:** No information found.

## SECTION 13: DISPOSAL CONSIDERATIONS

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Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. Dispose of container and unused contents in accordance with state and local requirements.

## SECTION 14: TRANSPORT INFORMATION

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No special transportation facilities required.

## SECTION 15: REGULATORY INFORMATION

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There is no regulatory information regarding this product.

## SECTION 16: OTHER INFORMATION

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**NFPA Ratings: Health – 0, Flammability – 1, Reactivity – 0**

**Label Hazard Warning:** As a part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.

**Label Precautions:** None.

**Label First Aid:** Not applicable.

**Product Use:** Food, Paper, Textiles Industry and Printing Applications.

**Revision Information:** Last Updated on 29.11.2018

## DISCLAIMER

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