

SAFETY DATA SHEET

MAIZE STARCH (FOOD GRADE CORN STARCH)

CAS No.: 9005-25-8

This Safety Data Sheet is compiled from well-established published chemical, GHS classification and regulatory reference sources for this substance. It is supplied by Suraj Chemicals as the distributor/supplier of record and is not a manufacturer-issued document. Users should also consult the specific manufacturer's SDS where available.

1. IDENTIFICATION

Product Name	Maize Starch (Food Grade Corn Starch)
CAS Number	9005-25-8
Recommended Use	Industrial / commercial chemical trading and distribution
Supplier	Suraj Chemicals, No 92, Govindappa Naicken Street, Shiva Complex, Chennai - 600001, India
Emergency Telephone	+91 - 9840284032, 9176135357 / +91 - 44 - 25393652

2. HAZARD(S) IDENTIFICATION

GHS Signal Word	Not classified
HAZARD CLASSIFICATION	None assigned
HAZARD STATEMENTS	None assigned
PRECAUTIONARY STATEMENTS	None assigned

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Maize Starch (Food Grade Corn Starch)
CAS Number	9005-25-8
Physical State	Solid
Appearance / Odour	White to off-white, fine, odorless powder or granules.

4. FIRST-AID MEASURES

Eye Contact	Rinse with water for several minutes if dust causes irritation; seek medical attention if irritation persists.
Skin Contact	Wash off with water; not expected to cause more than transient irritation.
Inhalation	Remove to fresh air; if dust inhalation causes coughing or irritation, seek medical attention.
Ingestion	Rinse mouth with water; ingestion of this food ingredient is not expected to be harmful in normal circumstances.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Water spray, dry chemical, CO ₂ , or foam.
Unsuitable Extinguishing Media	Avoid high-pressure water or air streams that could disperse settled dust into an explosible cloud.
Special Hazards	Finely dispersed starch dust in air can form an explosible dust cloud in the presence of an ignition source; avoid dust accumulation and control ignition sources; combustion produces carbon monoxide and carbon dioxide.

6. ACCIDENTAL RELEASE MEASURES

Measures	Sweep or vacuum up using dust-tight equipment avoiding generation of airborne dust, eliminate ignition sources, use non-sparking tools and grounded/bonded equipment, and place in a closed container; floors may become slippery when wet.
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7. HANDLING AND STORAGE

Handling Precautions	Minimize dust generation and accumulation, use grounded/bonded equipment and non-sparking tools, avoid ignition sources, and provide adequate housekeeping and ventilation to control combustible dust.
Storage Conditions	Store in a cool, dry, well-ventilated area away from moisture and ignition sources; keep containers closed; control dust accumulation in bulk storage/handling areas.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits / PPE	General particulate-not-otherwise-classified guidance applies (~15 mg/m ³ total dust, ~5 mg/m ³ respirable); use a dust mask/respirator and safety glasses when generating dust.
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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance / Odour	White to off-white, fine, odorless powder or granules.
Boiling Point	Not applicable (decomposes/chars before boiling)
Melting Point	Not applicable (does not melt; decomposes/chars above ~300 C)
Flash Point	Not applicable (solid; see combustible dust note)
Density / Specific Gravity	~1.5 (true particle density); bulk density ~0.5-0.8 g/cm3
Water Solubility	Insoluble in cold water; forms a colloidal suspension/gel on heating (gelatinizes ~62-72 C)
pH Value	4.0-7.0 (5% aqueous slurry, approximately neutral)

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions; presents a combustible dust explosion hazard when finely dispersed in air.
Incompatible Materials	Strong oxidizing agents.
Hazardous Decomposition	Carbon monoxide and carbon dioxide on combustion or thermal decomposition.

11. TOXICOLOGICAL INFORMATION

Summary	Essentially non-toxic, edible polysaccharide with a long history of safe food use; dust may cause mechanical irritation of the eyes and upper respiratory tract; not classified as a carcinogen, mutagen or reproductive toxicant.
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12. ECOLOGICAL INFORMATION

Summary	Readily biodegradable natural polysaccharide; not expected to be hazardous to aquatic organisms.
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13. DISPOSAL CONSIDERATIONS

Disposal Method	Dispose of via composting, landfill or incineration in accordance with local regulations; not a hazardous waste.
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14. TRANSPORT INFORMATION

UN Number	Not regulated for transport
Transport Hazard Class	Not regulated
Packing Group	Not applicable

15. REGULATORY INFORMATION

Notes	Food-grade material should comply with FCC/Codex/FSSAI starch standards; GRAS status in the US; not classified as hazardous under GHS/OSHA HCS, though bulk storage and handling facilities should follow applicable combustible dust (e.g., NFPA 61) safety practices.
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16. OTHER INFORMATION

Prepared By	Suraj Chemicals, Technical / QA Desk
Date of Issue	29 Sep 2026
Note	This SDS is compiled from well-established published GHS hazard classification data and general chemical reference sources for this substance, in the standard 16-section format. Values are believed accurate but Suraj Chemicals makes no warranty, express or implied, regarding their completeness. Users should evaluate suitability for their own specific use.

(This document is computer generated and therefore does not require any signature.)

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