



SUPREME PETRO
CHEMICALS

IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS ·
SINCE 1997

No. 145, 1st Floor, Raja Muthiah Road,
Periyamet, Chennai – 600003, India
+91 86087 80096 · +91 81979 47045
admin@supremepetrochemicals.com

SAFETY DATA SHEET (SDS)

Maize Starch *SDS*

REV 3.1
29 JULY 2026
GHS REV.11 (2025)

CAS 9005-25-8 EC 232-679-6 SIGNAL WORD **DANGER**

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE
COMPANY

Product Name	Maize Starch
Product Type	Corn starch / Amylum Maydis
Chemical Family	Natural polysaccharide
CAS No.	9005-25-8
EC No.	232-679-6
Intended Use	Industrial / professional use as listed on the SPC product page.
Restrictions on Use	Industrial / professional use only. Confirm grade suitability before regulated or consumer use.
Supplier	Supreme Petro Chemicals
Address	No. 145, 1st Floor, Raja Muthiah Road, Periyamet, Chennai – 600003, India
Emergency Contact	Sanketh — +91 86087 80096 · Sudarshan — +91 81979 47045
Email	admin@supremepetrochemicals.com
Product Page	https://www.supremepetrochemicals.com/products/maize-starch
SDS Revision	July 2026
SDS Version	3.1

SECTION 2 HAZARD IDENTIFICATION

Not classified as hazardous under GHS. Combustible dust precautions apply.

GHS Classification	Not classified as hazardous under typical supplier GHS SDS classifications
Signal Word	Not classified
GHS Pictograms	No GHS pictogram (Not classified)

HAZARD STATEMENTS



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- None — substance is not classified as hazardous under GHS.

PRECAUTIONARY — PREVENTION

- P260 — Do not breathe dust.
- P271 — Use only outdoors or in a well-ventilated area.
- P280 — Wear protective gloves / eye protection / face protection.

PRECAUTIONARY — RESPONSE / STORAGE / DISPOSAL

- P304+P340 — IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312 — Call a POISON CENTER or doctor if you feel unwell.
- P305+P351+P338 — IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P403+P235 — Store in a well-ventilated place. Keep cool.
- P501 — Dispose of contents/container in accordance with local regulations.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS NO.	EC NO.	% W/W	GHS CLASSIFICATION
Corn starch / maize starch	9005-25-8	232-679-6	100	Not classified

Full text of H-statements listed in Section 16.

SECTION 4 FIRST AID MEASURES

Inhalation	Move to fresh air. If breathing is difficult, seek medical attention. If dust was inhaled in large quantities, rest and monitor; seek medical advice if irritation or symptoms persist.
Skin Contact	Remove contaminated clothing. Wash affected skin thoroughly with soap and water. Seek medical attention if symptoms persist.
Eye Contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Seek medical attention if irritation persists.
Ingestion	Rinse mouth. Do not induce vomiting unless directed by medical personnel. Seek medical advice.
Note to Physician	Treat symptomatically based on exposure route and product hazards. No specific antidote known.



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SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Water spray, foam, dry chemical or carbon dioxide. Use water spray to cool containers exposed to heat.
Unsuitable Media	Direct high-pressure water jet where it may spread the material or raise dust clouds.
Specific Hazards	Fine organic dust may form explosive mixtures in air (combustible dust hazard). Containers may rupture when exposed to intense heat. Carbon oxides and irritating fumes may be produced on combustion.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA). Evacuate non-essential personnel from the area.
Special Procedures	Avoid creating dust clouds during fire-fighting operations. Prevent contaminated fire-fighting run-off from entering drains and waterways.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid generating dust clouds. Use appropriate respiratory protection and PPE (see Section 8). Eliminate ignition sources in the immediate area.
Environmental Precautions	Prevent entry into drains, sewers, soil and watercourses.
Containment / Clean-up	Sweep or vacuum using dust-control methods. Collect material into labelled containers for disposal. Do not use compressed air for clean-up. Avoid dispersing dust.
Reference to Sections	See Section 8 for PPE, Section 13 for disposal and Section 15 for regulatory information.

SECTION 7 HANDLING AND STORAGE

Handling Precautions	Avoid dust generation and ignition sources. Use local exhaust ventilation to control dust. Keep away from heat and open flames. Handle in closed systems where practicable.
Hygiene	Wash hands after handling. Remove contaminated clothing before reuse. Do not eat, drink or smoke when using.
Storage Conditions	Store in original, tightly closed compatible containers in a cool, dry, well-ventilated area. Protect from moisture and contamination.



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	Inspect containers regularly for leakage or damage.
Storage Temperature	Ambient temperature unless supplier instructions specify otherwise.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides); concentrated acids and halogens. See supplier SDS before use.
Segregation	Segregate from food, drink, animal feed and incompatible chemicals.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	CAS 9005–25–8 (maize starch): use verified local OEL where established; otherwise apply ALARA / good industrial hygiene practice. Consult OSHA, NIOSH, ACGIH, EU/UK or Indian authority guidance for the applicable jurisdiction. STEL/ceiling: use verified regional value if established.
Engineering Controls	Use closed handling systems and local exhaust ventilation (LEV) to control dust generation. Use explosion-proof ventilation and bonding/earthing where combustible dust risk exists.
Respiratory Protection	If ventilation is inadequate, use a NIOSH/EN-approved respirator with P95/P100 particulate filter cartridge. Use SCBA for emergencies or high-concentration releases.
Hand / Eye / Skin	Gloves: compatible chemical-resistant gloves (e.g. nitrile, butyl, neoprene or PVC); select appropriate thickness and breakthrough time for the task. Eye/face: EN 166/ANSI Z87.1 chemical splash goggles; add face shield where dust or splash risk exists. Body: chemical-resistant clothing/apron and safety footwear; antistatic PPE where combustible dust is present. Provide eyewash and safety shower where appropriate.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White to off-white fine powder.
Odour	Odourless or slight characteristic odour.
Odour Threshold	Not established.
pH	Approx. neutral in aqueous slurry (pH 5.5–7.0 typical for 10% slurry); not applicable to dry powder.
Melting / Freezing Point	Not applicable as a discrete melting point (decomposes before melting; gelatinisation ~60–72°C). See supplier specification.



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Boiling Point / Range	Not applicable (solid; decomposes on heating rather than boiling). See supplier specification.
Flash Point	Not applicable (solid, non-volatile).
Auto-ignition Temperature	Not established; combustible dust hazard applies — refer to supplier/test data.
Flammability Limits	Not established as vapour limits; combustible dust minimum ignition energy data required from supplier.
Vapour Pressure	Not applicable (solid powder at ambient temperature).
Vapour Density (air = 1)	Not applicable.
Relative Density	Bulk density grade-dependent (typically 0.50–0.65 g/cm ³ for loose powder); particle density approx. 1.5 g/cm ³ . See supplier specification.
Solubility in Water	Insoluble in cold water; swells and gelatinises in hot water (above ~60°C).
Log Pow (Partition Coeff.)	Not established for supplied commercial grade.
Evaporation Rate	Not applicable (solid).
Viscosity	Not applicable to dry powder; see supplier specification for gelatinised paste viscosity.
VOC Content	Negligible / not applicable. Assess under applicable local VOC rules.

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions.
Conditions to Avoid	Avoid heat above gelatinisation temperature, ignition sources (sparks, open flame), moisture, contamination and incompatible materials. Avoid generating airborne dust clouds.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Avoid contact with concentrated acids and halogens. Reactive with aluminium chloride (AlCl ₃) under elevated temperature — not a concern in ambient blending or storage.
Hazardous Decomposition	Carbon oxides (CO, CO ₂) and irritating or toxic fumes may be formed on combustion or thermal decomposition.
Hazardous Reactions	Will not occur under normal conditions when stored and handled correctly. Combustible dust explosion risk if dispersed in air and exposed to ignition source.



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SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Low acute toxicity expected; maize starch is a food-grade substance at appropriate grades. No specific LD50 data for industrial grade; confirm with supplier.
Acute Dermal Toxicity	Low acute toxicity expected. May cause mild mechanical irritation to skin. Confirm with supplier.
Acute Inhalation Toxicity	Dust may cause mechanical irritation to respiratory tract and mucous membranes. Nuisance dust exposure at high concentrations. No specific LC50 data for commercial grade.
Skin Irritation	Not expected to be a skin irritant under GHS criteria. Prolonged or repeated exposure to dust may cause mild mechanical irritation.
Eye Irritation	Dust may cause mechanical eye irritation. Not classified as an eye irritant under GHS.
Sensitisation	Not known to be a skin or respiratory sensitiser; confirm with supplier/test data for specific grade.
Carcinogenicity	Not listed as a carcinogen by IARC, NTP, or OSHA. Additional endpoint data requires supplier/test confirmation.
Mutagenicity	No mutagenicity data identified for commercial maize starch. Additional numeric endpoint data requires supplier/test confirmation.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	No acute or chronic aquatic classification identified in Section 2. Maize starch is a natural biopolymer; numeric ecotoxicity data not universally verified. Avoid large-scale release to aquatic environments.
Persistence / Degradability	Expected to be readily biodegradable (natural polysaccharide); however, do not assume ready biodegradability without supplier or verified test data.
Bioaccumulation	Not expected to bioaccumulate (natural macromolecule; not lipophilic). Use verified log Kow/BCF data where available.
Mobility in Soil	Insoluble in cold water; may be deposited in soil. Prevent release to soil and groundwater.
Other Adverse Effects	Avoid uncontrolled release to the environment. Manage releases and waste under applicable local environmental regulations.



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SECTION 13 DISPOSAL CONSIDERATIONS

Waste from Product	Dispose of contents through an authorised waste contractor in accordance with local regulations. Maize starch may be disposed of via composting or incineration at approved facilities where permitted.
Contaminated Packaging	Empty containers may retain residues; handle as potentially hazardous until cleaned or formally disposed. Return, recycle or dispose of in accordance with local regulations.
Indian Regulations	Follow applicable Indian MSIHC Rules, Hazardous Waste Management Rules and State Pollution Control Board requirements. Assign waste code according to actual process and local regulation.

SECTION 14 TRANSPORT INFORMATION

PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
UN Number	Not regulated	Not regulated	Not regulated
Proper Shipping Name	Not regulated	Not regulated	Not regulated
Class	Not regulated	Not regulated	Not regulated
Packing Group	Not regulated	Not regulated	Not regulated
Marine Pollutant	No	No	No

Maize starch is not classified as a dangerous good under ADR, IMDG or IATA DGR. Use an approved compatible container appropriate to the product. Verify current carrier requirements before shipment.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Observe REACH and CLP requirements where applicable. Classified and labelled according to the product-specific GHS/CLP classification listed in Section 2. Maize starch (CAS 9005–25–8) listed on EINECS (EC 232–679–6).
OSHA (USA)	Prepared in OSHA HCS/HazCom 2012–aligned 16–section SDS format. Verify TSCA inventory status before US import or distribution.
India	Observe applicable Indian MSIHC Rules, workplace chemical, VOC and environmental requirements as well as State Pollution Control Board and CPCB directives.



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Other Jurisdictions	China (GB Standards): use applicable GB/T SDS and classification requirements where marketed. Canada (WHMIS 2015/HPR): classify and label using Section 2 classification; Canadian sale may require bilingual SDS/label and ingredient disclosure. Australia (AICS): check inventory status before export or import. Middle East/GCC: observe applicable GHS-aligned local requirements. Final market placement requires confirmation of inventory status, local OELs, transport class, waste code and restrictions.
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SECTION 16 OTHER INFORMATION

Prepared By	Supreme Petro Chemicals — Technical Department
SDS Standard	UN GHS Rev.11 (2025); OSHA HCS/HazCom; EU CLP/REACH Annex II; Canada WHMIS/HPR — 16-section format
Revision Date	24 June 2026
Version	3.0 (supersedes prior issues)
Disclaimer	Information is given in good faith and believed accurate at issue. It does not constitute a specification or guarantee; the user is responsible for safe use, handling and compliance.

FULL TEXT OF H-STATEMENTS

- None — substance is not classified as hazardous under GHS; no H-statements apply.