SAFETY DATA SHEET (SDS)

Product Name:	**FOOD GRADE POTATO STARCH**	**SDS Revision:**	01
Company Name:	Crystal Scientific System	**SDS Issue Date:**	16 September 2026
Grade / Packing:	Food Grade / 25 kg Bag	**Country of Origin:**	Pakistan

1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY

Product Identifier:	Potato Starch – Food Grade
Manufacturer/Supplier:	Crystal Scientific System
Address:	Sector - 31D, Korangi Industrial Zone, Karachi, Pakistan
Recommended Use:	Food ingredient and industrial applications where food-grade potato starch is suitable.
Restrictions on Use:	Use in accordance with the product specification and customer requirements.
Emergency Telephone:	Not provided. Please contact your local distributor / authority.

2. HAZARDS IDENTIFICATION

Hazard Classification:

The product is not normally classified as hazardous when handled under normal conditions. However, fine starch powder can produce airborne dust. Excessive dust may cause temporary mechanical irritation of the eyes and respiratory tract. Under suitable conditions, a cloud of fine organic starch dust may be combustible.

Precautionary Measures:

- Avoid generating excessive dust.
- Avoid breathing dust.
- Provide adequate ventilation during handling.
- Prevent accumulation of dust on floors, equipment and elevated surfaces.
- Keep away from ignition sources where airborne dust may be generated.
- Maintain good housekeeping practices.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Product Name:	Potato Starch
Main Component:	Starch derived from potato.
Nature:	Food-grade starch powder.
Composition Note:	Exact composition and any permitted processing aids or additives, if applicable, should be confirmed against the manufacturer's current product specification.

4. FIRST-AID MEASURES

Inhalation:	Move the affected person to fresh air. If coughing, irritation or breathing discomfort persists, seek medical attention.
Eye Contact:	Rinse cautiously with clean water for several minutes. Remove contact lenses if present and easy to do. Seek medical attention if irritation persists.
Skin Contact:	Wash thoroughly with soap and water. Seek medical attention if irritation persists.
Ingestion:	Rinse mouth with water. If the person feels unwell, seek medical advice.
Key Symptoms:	Temporary irritation of the eyes, nose or respiratory tract may occur following exposure to excessive dust.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Water spray, Foam, Dry chemical, Carbon dioxide (CO■). Use extinguishing media appropriate for the surrounding fire.

Specific Hazards:

Fine starch dust suspended in air can be combustible and may present a dust-explosion hazard under suitable conditions, particularly in confined or enclosed areas.

Protective Equipment for Firefighters:

Firefighters should use appropriate protective clothing and respiratory protection according to the conditions of the fire. Avoid creating unnecessary airborne dust during fire cleanup.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Avoid breathing dust. Avoid creating airborne dust. Keep unnecessary personnel away from the spill area. Remove ignition sources where it is safe to do so.

Methods for Cleaning Up:

Collect spilled material using methods that minimize dust generation, such as suitable industrial vacuum equipment or careful cleaning. Place recovered material into suitable, closed containers.

Environmental Precautions:

Prevent large quantities of product from entering drains, waterways or the environment.

7. HANDLING AND STORAGE

Safe Handling:

Handle carefully to minimize dust formation. Provide adequate ventilation. Avoid breathing excessive dust. Keep away from ignition sources where dust clouds may form. Do not eat, drink or smoke while handling the product. Wash hands after handling.

Storage Conditions:

Store in a cool, dry, clean, and well-ventilated area. Keep packaging tightly closed when not in use. Protect the product from moisture, excessive heat, contamination, and ignition sources. Prevent accumulation of starch dust.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits: No specific product exposure limit is provided in this SDS. Follow applicable local occupational exposure requirements.

Personal Protective Equipment (PPE):

- **Respiratory Protection:** Where excessive dust may occur, use suitable particulate respiratory protection in accordance with the workplace safety program.
- **Eye Protection:** Safety glasses or suitable protective eyewear should be used where dust exposure is possible.
- **Hand Protection:** Protective gloves may be used depending on workplace conditions.
- **Hygiene Measures:** Wash hands thoroughly after handling and before eating, drinking or smoking. Maintain good workplace hygiene.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Description / Value
Appearance / Physical State	White to off-white solid powder
Odour	Mild / characteristic

Solubility in Water	Swells/disperses; does not behave as a simple molecular solution
pH / Moisture	Refer to current product Specification / Certificate of Analysis (CoA)
Flash Point	Not applicable as a powder; combustible-dust behavior should be considered
Boiling Point / Melting Point	Not applicable / Product-specific data not provided
Auto-Ignition Temperature	Product-specific data not provided

10. STABILITY AND REACTIVITY

Reactivity: No hazardous reaction is expected under normal conditions of use and storage.

Chemical Stability: Stable under normal storage and handling conditions.

Conditions to Avoid: Excessive heat, ignition sources, moisture, and conditions generating airborne dust.

Incompatible Materials: Avoid contact with strong oxidizing agents.

Hazardous Deco. Products: No hazardous decomposition products are expected under normal conditions. Thermal decomposition may occur under excessive heating.

11. TOXICOLOGICAL INFORMATION

No product-specific toxicological test data were provided for preparation of this document. Potato starch is commonly used as a food ingredient.

Potential Health Effects:

- **Inhalation:** Excessive airborne dust may cause temporary irritation of the nose and respiratory tract.
- **Eye Contact:** Dust may cause temporary mechanical irritation.
- **Skin Contact:** Normally not expected to cause significant irritation under normal handling conditions.
- **Ingestion:** Food-grade potato starch is intended for use safely as a food ingredient when used according to requirements.

12. ECOLOGICAL INFORMATION

No product-specific ecotoxicological data are available. Potato starch is an organic material and is naturally expected to be fully biodegradable. Avoid uncontrolled release of large quantities into drains or waterways.

13. DISPOSAL CONSIDERATIONS

Dispose of unused product, contaminated material, and packaging in accordance with applicable local and national regulations. Where permitted, uncontaminated material may be handled safely as a non-hazardous organic food material. Do not discharge large quantities directly into drains or waterways.

14. TRANSPORT INFORMATION

UN Number:	Not assigned / Not regulated as a dangerous good based on available data.
UN Proper Shipping Name:	Not applicable.
Transport Hazard Class:	Not regulated.
Packing Group:	Not applicable.
Environmental Hazards:	No specific environmental transport classification identified.
Special Precautions:	Protect product from moisture, contamination, and excessive heat. Minimize dust generation during loading and unloading.

15. REGULATORY INFORMATION

This Safety Data Sheet is provided as a professional workplace safety information document. The product must be handled in accordance with applicable local regulations relating to food safety, occupational health, storage, transportation, and environmental protection. Customer-specific regulatory declarations, food-grade documentation, Halal certification, or specific import compliance parameters should be verified independently.

16. OTHER INFORMATION

The information accumulated herein is believed to be accurate and represents the best data currently available to Crystal Scientific System. However, no warranty, expressed or implied, is given. Users should make their own investigations to determine the suitability of the information for their particular operations and industrial setups.

This is for informational purposes only. For medical advice or diagnosis, consult a professional. AI responses may include mistakes.

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