

## HP Starch

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

Revision Date: 09-Jun-2021  
Supersedes: 23-Dec-2015

### 1 PRODUCT & COMPANY IDENTIFICATION

<b>Product Name:</b>	HP Starch	<b>Distributor:</b>	XI'AN AOGU BIOTECH CO.,LTD
<b>Synonyms:</b>	No data available Hydroxypropyl	<b>Address:</b>	Room 606,Block B3,Jinye Times,No.32,East Section of Jinye Road,Yanta District,Xi'an
<b>INCI Name:</b>	starch phosphate		Shaanxi 710065 China
<b>CAS Number:</b>	113894-92-1	<b>Phone / Fax:</b>	0086-29-89121514 0086-18091843361
<b>Formula:</b>	No data available	<b>Web:</b>	<a href="http://www.aogubio.com">www.aogubio.com</a>
<b>Product Form:</b>	Powder		
<b>Product Use:</b>	Cosmetic use	<b>Emergency Telephone Number:</b>	0086-18091843361

### 2 HAZARDS IDENTIFICATION

<b>GHS Classification:</b>	Not classified		
<b>GHS Labeling:</b>	Not a dangerous substance according to GHS		
<b>GHS Hazard Pictograms:</b>	None		
<b>GHS Hazard Statements:</b>	None		
<b>GHS Precautionary Statements:</b>	None		
<b>Potential Health Hazards:</b>	Eyes: Product dust may be irritating to eyes. Inhalation: Product dust may be irritating to respiratory system. Skin: Product dust may be irritating to skin. Ingestion: Not expected to be irritating.		
<b>NFPA Ratings (704):</b>	<b>Health</b>	1	Slight
	<b>Flammability</b>	1	Slight
	<b>Reactivity</b>	0	Minimal
	<b>Specific Hazard</b>	N/A	

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS No.</u>	<u>Weight %</u>	<u>Molecular Weight</u>
Hydroxypropyl starch phosphate	113894-92-1	≥88%	Not Available
Water	7732-18-5	≤12%	Not Available

### 4 FIRST AID MEASURES

<b>Eyes:</b>	Rinse with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. Seek medical attention if necessary.
<b>Inhalation:</b>	Remove to fresh air. Keep patient warm and at rest. Rinse nose and mouth with water. Seek medical attention if necessary.
<b>Skin:</b>	Remove contaminated clothing and shoes. Rinse with water. Seek medical attention if necessary.
<b>Ingestion:</b>	Clean mouth with water and drink afterwards plenty of water. Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. Seek medical attention if necessary.

### 5 FIRE-FIGHTING MEASURES

<b>Suitable (and unsuitable) extinguishing media:</b>	May be combustible at high temperature. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment (dry powder, foam, carbon dioxide) for adjacent fire. Do not use direct water jet.
<b>Special protective equipment &amp; precautions for firefighters:</b>	Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots. Risks of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding accumulation of dust, e.g., on floors and ledges.

**Flash Points:** Not applicable  
**Specific hazards arising from the chemical:** Carbon oxides, phosphates. See also Stability and Reactivity section.

## 6 ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment & emergency procedures:** Avoid dust formation. 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. Notify environmental authorities in case of large leaks.  
**Methods and material for containment and cleaning up:** Sweep up and shovel. Keep in suitable, closed containers for disposal.

## 7 HANDLING & STORAGE

**Precautions for safe handling:** 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. See section 8 for recommendations on the use of personal protective equipment. Keep container closed when not in use.  
**Conditions for safe storage, incl. any incompatibilities:** Store in original container in a dry place Store between 40-77°F (5-25°C). Keep container tightly closed. Keep away from heat and incompatible materials (see section 10 for incompatibilities). No decomposition if store and applied as directed.

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	Exposure Limits	Basis	Entity
HP Starch (dust)	50 million particles per ft <sup>3</sup> <i>Further Info:</i> a) Millions of particles per cubic foot of air, based on iminger 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 (total dust)	OSHA Z-3
HP Starch (dust)	15 mg/m <sup>3</sup> <i>Further Info:</i> 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.	TWA (total dust)	OSHA Z-3
HP Starch (dust)	5 mg/m <sup>3</sup> <i>Further Info:</i> 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.		OSHA Z-3
HP Starch (dust)	50 million particles per ft <sup>3</sup> <i>Further Info:</i> a) Millions of particles per cubic foot of air, based on iminger 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		OSHA Z-3

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 x minutes.  
 IDLH: Immediately Dangerous to Life or Health  
 WEEL: Workplace Environmental Exposure Levels  
 CEIL: Ceiling

### Personal Protection:

**Eyes:** Safety glasses should be worn.  
**Inhalation:** No personal respiratory equipment normally required. In the case of dust, vapor, or aerosol formation use respirator with an approved filter.  
**Body:** Glove material: for prolonged or repeated contact use protective gloves. Glove material: Protective gloves complying with EN 374.  
 Half mask with a particle filter P2 (EN 143).  
**Other:** Use good personal hygiene practices. Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Powder	<b>Vapor Pressure:</b>	Not applicable
<b>Odor:</b>	Mild	<b>Vapor Density:</b>	Not applicable
<b>Odor Threshold:</b>	No data available	<b>Evaporation Rate:</b>	No data available
<b>Color:</b>	White	<b>Flammability:</b>	Not flammable
<b>Molecular Weight:</b>	No data available	<b>Upper/lower Explosive Limit:</b>	LEL: 125,000 mg/m <sup>3</sup>
<b>pH (1% solution):</b>	4.5-7.0	<b>Flash Point:</b>	Not applicable
<b>Boiling Point:</b>	Not applicable	<b>Specific Gravity:</b>	No data available
<b>Melting Point:</b>	No data available	<b>Solubility in Water:</b>	Soluble
<b>Relative Density:</b>	No data available	<b>Auto-Ignition Temperature:</b>	>100°C
<b>Partition Coefficient: n-octanol/water:</b>	No data available	<b>Decomposition Temperature:</b>	No data available
<b>Viscosity:</b>	Not applicable	<b>Explosive Properties:</b>	Not explosive
<b>Oxidizing Properties:</b>	Not oxidizing	<b>Freezing Point:</b>	No data available
<b>Dust Expsion Class:</b>	St1	<b>Minimum Ignition Energy:</b>	100-300 mJ

## 10 STABILITY AND REACTIVITY

<b>Reactivity:</b>	Stable under normal conditions.
<b>Chemical Stability:</b>	Stable under recommended storage conditions.
<b>Hazardous Polymerization:</b>	Dust may form explosive mixture in air.
<b>Conditions to Avoid:</b>	None known.
<b>Incompatible Materials:</b>	None known.
<b>Hazardous Decomposition Products:</b>	None known.

## 11 TOXICOLOGICAL INFORMATION

<b>Acute Toxicity:</b>	No data available
<b>Skin:</b>	No data available
<b>Eyes:</b>	No data available
<b>Respiratory:</b>	No data available
<b>Ingestion:</b>	No data available
<b>Carcinogenicity:</b>	Not listed as carcinogenic by IARC, OSHA, or NTP.
<b>Teratogenicity:</b>	No data available
<b>Germ Cell Mutagenicity:</b>	No data available
<b>Embryotoxicity:</b>	No data available
<b>Specific Target Organ Toxicity:</b>	No data available
<b>Reproductive Toxicity:</b>	No data available
<b>Respiratory/Skin Sensitization:</b>	No data available
<b>Corrosivity:</b>	No data available
<b>Sensitization:</b>	No data available
<b>Irritation:</b>	No skin irritation.
<b>Repeated Dose Toxicity:</b>	No data available

## 12 ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	
<b>Aquatic Vertebrate:</b>	No data available
<b>Aquatic Invertebrate:</b>	EC50: >100 mg/L (Daphnia magna) (48h)
<b>Terrestrial:</b>	No data available
<b>Persistence and Degradability:</b>	Not readily biodegradable.
<b>Bioaccumulative Potential:</b>	Bioaccumulation is unlikely.
<b>Mobility in Soil:</b>	No data available
<b>PBT and vPvB Assessment:</b>	No data available
<b>Other Adverse Effects:</b>	No data available
<b>Hazardous to the Ozone Layer:</b>	40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by

## 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 container.
- Product Containers:** 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):** Not regulated as a dangerous good
- TDG (Transportation of Dangerous Goods, Canada):** Not regulated as a dangerous good
- IMDG (International Maritime Dangerous Goods):** Not regulated as a dangerous good
- IATA (International Air Transport Association):** Not regulated as a dangerous good
- ICAO (International Civil Aviation Organization):** Not regulated as a dangerous good
- Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** Not applicable for product as supplied.
- 49 CFR:** Not regulated as a dangerous good
- NOM-002-SCT:** Not regulated as a dangerous good

## 15 REGULATORY INFORMATION

- TSCA Inventory Status:** YES. All chemical substances in this product are either listed on the TSCA Inventory or in compliance with a TSCA Inventory exemption. No substances are subject to a Significant New Use Rule. No substances are subject to TSCA 12(b) export notification requirements.
- DSCL (EEC):** YES. All components of this product are on the Canadian DSL.
- WHMIS (Canada):** No data available
- EU EINECS/ELINCS/NLP:** YES. On the inventory, or in compliance with the inventory.
- China IECSC:** YES. On the inventory, or in compliance with the inventory.
- China IECIC (06.30.2014):** No data available
- Australia AICS:** YES. On the inventory, or in compliance with the inventory.
- Japanese ENCS:** YES. On the inventory, or in compliance with the inventory.
- Philippines PICCS:** NO. Not in compliance with the inventory.
- Korea KECI:** YES. On the inventory, or in compliance with the inventory.
- New Zealand NZIoC:** YES. On the inventory, or in compliance with the inventory.
- Japan ISHL:** NO. Not in compliance with the inventory.
- CERCLA Reportable Quantity:** This material does not contain any components with a CERCLA RQ.
- SARA 304 Extremely Hazardous Substances RQ:** This material does not contain any components with a section 304 EHS Reportable Quantity.
- SARA 311/312 Hazards:** No SARA Hazards
- SARA 302:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
- 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 does not contain any hazardous air pollutants (HAP), as defined by the US Clean Air Act Section 12 (40 CFR 61).  
This product does not contain any chemicals subject to disclosure and listed under the US 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 US Clean Air Act Section 111 SOCM Intermediate or Final VOCs (40 CFR 60.489).  
This product does not contain any Hazardous Substances listed under the US Clean Water Act, Section 311, Table 116.4A.
- Clean Water Act:** This product does not contain any Hazardous Chemicals listed under the US Clean Water Act, Section 311, Table 117.3.  
This product does not contain any toxic pollutants listed under the US Clean Water Act Section

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**California Prop 65:** 307.  
This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

### 16 OTHER INFORMATION

**Revision Date:** 09-Jun-2021

**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 suitability & completeness of such information for his own particular use.