Safety Data Sheet

Potato straight chain starch solution standard material

Version: V2.0.0.1

Report No.: BWQ9050-2016 -MSDS-US

Creation Date: 2025/11/11

Revision Date: -

*Prepared according to American OSHA HCS-2024 (29 CFR 1910.1200)



1 Identification

| Product identifier

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Product Name	Potato straight chain starch solution standard material
Cat No.	BWQ9050-2016
CAS No.	Not applicable
EC No.	Not applicable
Molecular Formula	Not applicable

Recommended use of the product and restrictions on use

Relevant identified uses	Please consult manufacturer.
Uses advised against	Please consult manufacturer.

Details of the supplier of the Safety Data Sheet

Name of the company	Weiyel Inc
Address of the company	Hedian Light Industrial Park, Chengguan Town, Shangcheng County, Xinyang City, Henan Province, China
Post code	465350
Telephone number	010-58103678
Fax number	010-84840368
E-mail address	info@weiyel.com

| Emergency phone number

	Emergency	phone number	010-58103678
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2 Hazard(s) identification

Hazard classification according to 29 CFR 1910.1200

Skin corrosion/irritation	Category 1C
Serious eye damage/irritation	Category 1

Label elements

<u> </u>	
Hazard pictograms	
Signal word	Danger

Hazard statements			
H314	Causes severe skin burns and eye damage		
H318	Causes serious eye damage		
Precautionary statements			
◆ Prevention			
P260 Do not breathe gas/mist/vapour/spray.			
P264	Wash hands and other parts of the body (if related) thoroughly after handling.		
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.		
◆ Response			
P321	Specific treatment (see related instructions on the label).		
P363	Wash contaminated clothing before reuse.		
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.		
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.		
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse		
	affected areas with water [or shower].		
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact		
A Ctorogo	lenses, if present and easy to do. Continue rinsing.		
◆ Storage	Ctore legical up		
	Store locked up.		
◆ Disposal			
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.		
Other hazards			
	Not applicable.		
Hazard description			
•			
 Physical and chemical haz 			
	No information available		
Health hazards			
Inhaled	Corrosive product can cause irritation of the respiratory tract, with coughing,		
1	choking and mucous membrane damage.		
Ingestion	Accidental ingestion of the product may be harmful to the health of the individual.		
Skin Contact	The product can cause severe skin burns following direct contact with the skin.		
Eye	The product can produce severe chemical burns to the eye following direct contact. If timely and appropriate treatment is not available may cause permaner blindness.		
◆ Environmental hazards			
	Please refer to 12th chapter of SDS.		
3 Composition/informa	tion on ingredients		
Substance/mixture			

Component	CAS No.	EC No.	Concentration (wt, %)
Amylose	9005-82-7	232-685-9	0.1
Potassium hydroxide	1310-58-3	215-181-3	5.59
Water	7732-18-5	231-791-2	94.31

4 First-aid measures

Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Skin contact	Take off contaminated clothing and shoes immediately. Wash off with plenty of soap and water for at least 15 minutes and consult a physician if feel uncomfortable.
Ingestion	Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
Inhalation	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.
Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

Most important symptoms/effects, acute and delayed

Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

Indication of any immediate medical attention and special treatment needed

- 1 Treat symptomatically.
- 2 Symptoms may be delayed.
- 5 Fire-fighting measures

| Extinguishing media

Suitable extinguishing media	Small fire: dry chemical, CO ₂ or water spray; Large fire: dry chemical, CO ₂ ,
	alcohol-resistant foam or water spray; Fire involving tanks, rail tank cars or
	highway tanks: Fight fire from maximum distance or use unmanned master
	stream devices or monitor nozzles. Cool containers with flooding quantities of
	water until well after fire is out. Do not get water inside containers.
Unsuitable extinguishing media	No information available.

Specific hazards arising from the substance or mixture

Fire may produce irritating, poisonous or corrosive gases.
Development of hazardous combustion gases or vapor possible in the event of fire.
May expansion or decompose explosively when heated or involved in fire.

Special protective equipment and precautions for fire-fighters

- As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
- 2 Fight fire from a safe distance, with adequate cover.

3 Prevent fire extinguishing water from contaminating surface water or the ground water system.

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6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

- 1 Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire.
- 2 Do not touch or walk through spilled material.
- 3 Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- 4 Use personal protective equipment, do not breathe gas/mist/vapour/spray.
- 5 Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
- 6 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Environmental precautions

- 1 Prevent further leakage or spillage if safe to do so.
- 2 Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

- 1 Do not touch or cross spills.
- 2 It is recommended that emergency personnel wear a self-contained breathing apparatus with positive pressure and wear anti-corrosion clothing.
- 3 Transfer to a tank truck or special collector with a corrosion-resistant pump.
- 4 Do not touch broken containers and spills before putting on appropriate protective clothing.
- 5 Cut off the source of the leak as much as possible.
- 6 Keep leaks in a ventilated place.
- Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
- 8 Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.
- Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container.

7 Handling and storage

Precautions for safe handling

- 1 Handling is performed in a well ventilated place.
- 2 Wear suitable protective equipment.
- 3 Avoid contact with skin and eyes.
- 4 Keep away from heat/sparks/open flames/ hot surfaces.

Conditions for safe storage, including any incompatibilities

- 1 Keep containers tightly closed.
- 2 Keep containers in a dry, cool and well-ventilated place.
- 3 Keep away from heat/sparks/open flames/hot surfaces.
- 4 Store away from incompatible materials and foodstuff containers.

8 Exposure controls/personal protection

Control parameters

◆ Occupational exposure limit values

Component	Country/Region Limit value - Eight ho		- Eight hours	Limit value - Short term	
		ppm	mg/m³	ppm	mg/m³
Potassium hydroxide	Japan - JSOH(2024–202 5)	-	-	-	-
	Australia	-	-	-	2
	Canada - Ontario	-	-	-	2
	New Zealand	-	-	-	2
	USA - NIOSH	-	-	-	2
	Austria	-	2(inhalable aerosol)	-	-

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| Engineering controls

- Ensure adequate ventilation, especially in confined areas.Ensure that eyewash stations and safety showers are close to the workstation location.
- 3 Use explosion-proof electrical/ventilating/lighting/equipment.
- 4 Set up emergency exit and necessary risk-elimination area.

| Personal protection equipment

<u>'</u>	
General requirement	
Eye protection	Must wear appropriate anti-corrosion goggles.
Hand protection	Must wear acid and alkali resistant chemical protective gloves.
Respiratory protection	Must wear appropriate personal respiratory protective equipment.
Skin and body protection	Must wear acid and alkali resistant chemical protective clothing.

Physical and chemical properties and safety characteristics

| Physical and chemical properties

Colorless to slightly turbid liquid
No information available
No information available
13.5 (Potassium hydroxide)
380 (Potassium hydroxide)
1324 (Potassium hydroxide)
No information available
No information available
No information available
Upper limit: No information available; Lower limit: No information available
No information available

Vapor density(Air = 1)	No information available
Relative density(Water=1)	2.04 (20°C,Potassium hydroxide)
Solubility	Miscible with water (Potassium hydroxide)
n-octanol/water partition	No information available
coefficient	
Auto-ignition temperature(°C)	No information available
Decomposition temperature(°C)	No information available
Kinematic viscosity	No information available

10 Stability and reactivity

| Stability and reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.	
Chemical stability	Stable under proper operation and storage conditions.	
Possibility of hazardous reactions Conditions to avoid	React violently with acids, phenols or alcohols. In contact with active metals (alkali metals, Na, Ca etc.) causes a reaction and release hydrogen. Incompatible materials, heat, flame and spark.	
Incompatible materials	Acids, phenols, alcohols and nitro substituted hydrocarbon. Alkali, sodium, calcium, and other active metal, halogen, metal oxide, nonmetal oxide, acyl halide and metal phosphide.	
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.	

11 Toxicological information

Acute toxicity

Component	LD ₅₀ (oral)	LD ₅₀ (dermal)	LC ₅₀ (inhalation,4h)
Potassium hydroxide	273mg/kg(Rat)	No information available	No information available

| Carcinogenicity

Component	List of carcinogens by	Report on Carcinogens	OSHA Carcinogen List
	the IARC Monographs	by NTP	
Amylose	Not Listed	Not Listed	Not Listed
Potassium hydroxide	Not Listed	Not Listed	Not Listed
Water	Not Listed	Not Listed	Not Listed

Others

Potato straight chain starch solution standard material		
Skin corrosion/irritation	Causes severe skin burns and eye damage(Category 1C)	
Serious eye damage/irritation	Causes serious eye damage(Category 1)	
Skin sensitization	Based on available data, the classification criteria are not met	
Respiratory sensitization	Based on available data, the classification criteria are not met	
Reproductive toxicity	Based on available data, the classification criteria are not met	
STOT-single exposure	Based on available data, the classification criteria are not met	
STOT-repeated exposure	Based on available data, the classification criteria are not met	

Aspiration hazard	Based on available data, the classification criteria are not met
Germ cell mutagenicity	Based on available data, the classification criteria are not met

12 Ecological information

Acute aquatic toxicity

Acute aquatic toxicity No information available

| Chronic aquatic toxicity

Chronic aquatic toxicity No information available

| Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
Amylose	Low	Low

| Bioaccumulative potential

Component	Bioaccumulative potential	Comments
Amylose	Low	Log Kow=-2.8876

| Mobility in soil

Component	log Koc	Remark
Amylose	1.000	

13 Disposal considerations

| Disposal considerations

Waste chemicals	Before disposal should refer to the relevant national and local laws and
	regulation. Recommend the use of incineration disposal.
Contaminated packaging	Containers may still present chemical hazard when empty. Keep away from hot
	and ignition source of fire. Return to supplier for recycling if possible.
Disposal recommendations	Refer to section waste chemicals and contaminated packaging.

14 Transport information

Label and Mark

Transporting Label



| IMDG-CODE

UN number	3266
UN proper shipping name	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
Transport hazard class	8
Transport subsidiary hazard	None
class	

Packing group	ш
Marine pollutant (Yes or no)	No

IATA-DGR

UN number	3266
UN proper shipping name	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
Transport hazard class	8
Transport subsidiary hazard	None
class	
Packing group	ш

UN-ADR

UN number	3266
UN proper shipping name	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
Transport hazard class	8
Transport subsidiary hazard	None
class	
Packing group	ш

Transport in bulk according to IMO instruments

◆ Transport in bulk according to Annex II of MARPOL and the IBC code

Not Available

◆ Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Not Available

Transport in bulk in accordance with the IGC Code

Not Available

Others

Cilioro	
Precautions for transport	Transport vehicles should be equipped with the appropriate variety and quantity
	of fire equipment and emergency equipment leakage during transport. Before
	transport, should be preceded by checking whether container integrity, sealing.
	The transport unit must be placarded and marked in accordance with relevant
	transporting requirements.

Regulatory information

International chemical inventory

Component	Α	В	С	D	E	F	G	Н	I	J	K	L	М
Amylose	√	√	√	×	√	√	√	√	×	×	×	√	√
Potassium hydroxide	V	√	V	V	√	√	√						
Water	√	√	√	√	√	√	√	√	V	√	√	√	√

- [A] China Inventory of Existing Chemical Substances(IECSC)
- [B] European Inventory of Existing Commercial Chemical Substances(EC inventory)
- [C] United States Toxic Substances Control Act Inventory(TSCA)
- [D] Canadian Domestic Substances List(DSL)
- [E] New Zealand Inventory of Chemicals(NZloC)
- [F] Philippines Inventory of Chemicals and Chemical Substances(PICCS)

- [G] Korea Existing Chemicals Inventory(KECL)
- [H] Australian. Inventory of Industrial Chemical (AIICS)
- [1] Japan Inventory of Existing & New Chemical Substances(ENCS)
- [J] Thailand Existing Chemicals Inventory(TECI)
- [K] Mexico National Inventory of Chemical Substances (INSQ)
- [L] Russia Inventory of Existing Substances (DRAFT)
- [M] Inventory of Existing Chemical Substances in Taiwan, China (TCSI)

List of Chemical Substances under International Conventions

Component	Α	В	С
Amylose	×	×	×
Potassium hydroxide	×	×	×
Water	×	×	×

- [A] The Montreal Protocol on Substances that Deplete the Ozone Layer
- [B] Stockholm Convention on Persistent Organic Pollutants (POPs)
- [C] Rotterdam Convention on the prior informed consent procedure for certain hazardous chemicals and pesticides in international trade

US chemical inventory

Component	Α	В	С	D	E	F	G	Н
Amylose	×	×	×	×	×	×	×	×
Potassium hydroxide	×	×	√	V	V	V	√	×
Water	×	×	×	×	×	×	×	×

- [A] US Clean Air Act (CAA)- Section 112, Hazardous Air Pollutants
- [B] US SARA 302- Extremely Hazardous Substance List
- [C] US CERCLA- Hazardous Substances List
- [D] US Massachusetts Right-to-Know Substance List
- [E] US New Jersey Right to Know Hazardous Substance List
- [F] US Pennsylvania Right to Know Hazardous Substance List
- [G] US New York City Right-to-Know Hazardous Substance List
- [H] US California Proposition 65 List

Note:

- " $\sqrt{}$ " Indicates that the substance included in the regulations.
- "x" No data or not included in the regulations.

16 Other information

Information on revision

Creation Date	2025/11/11
Revision Date	-
Reason for revision	-

Reference

- [1] IPCS: The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home.
- [2] IARC, website: http://www.iarc.fr/.
- [3] OECD: The Global Portal to Information on Chemical Substances, website: https://www.echemportal.org/echemportal/.
- [4] CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple.
- [5] NLM: ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp.
- [6] EPA: Integrated Risk Information System, website: http://cfpub.epa.gov/iris/.
- [7] U.S. Department of Transportation: ERG, website: http://www.phmsa.dot.gov/hazmat/library/erg.
- [8] Germany GESTIS-database on hazard substance, website: http://gestis-en.itrust.de/.

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Abbreviations and acronyms

CAS	Chemical Abstracts Service	UN	The United Nations
PC-STEL	Short term exposure limit	OECD	Organization for Economic Co-operation and Development
PC-TWA	Time Weighted Average	IMDG- CODE	International Maritime Dangerous Goods CODE
MAC	Maximum Allowable Concentration	IARC	International Agency for Research on Cancer
DNEL	Derived No Effect Level	ICAO	International Civil Aviation Organization
PNEC	Predicted No Effect Concentration	IATA	International Air Transportation Association
NOEC	No Observed Effect Concentration	ACGIH	American Conference of Governmental Industrial Hygienists
LC ₅₀	Lethal Concentration 50%	NFPA	National Fire Protection Association
LD ₅₀	Lethal Dose 50%	NTP	National Toxicology Program
EC ₅₀	Effective Concentration 50%	PBT	Persistent, Bioaccumulative, Toxic
EC_X	Effective Concentration X%	vPvB	very Persistent, very Bioaccumulative
Pow	Partition coefficient Octanol: Water	CMR	Carcinogens, mutagens or substances toxic to reproduction
BCF	Bioconcentration factor	RPE	Respiratory Protective Equipment
ED	Endocrine disruptor	HCS	Hazard Communication Standard

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Disclaimer

This Safety Data Sheet (SDS) was prepared according to OSHA HCS-2024. The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.