



Innovating Botanical Health

Address: Chengnan Road, Huaxi Subdistrict, Changxing County, Huzhou City, Zhejiang Province, 313100, China

## Product Technical Data Sheet

**Product name:** Apple Cider Vinegar 20% Acetic Acid powder      **SH code:** SH03656a

1. Technical Data Sheet		
Product Name	Apple Cider Vinegar Powder	
Molecular formula	C <sub>2</sub> H <sub>4</sub> O <sub>2</sub>	
Molecular weight	60.05	
CAS number	64-19-7	
Item	Standard	Analysis Method
Typical Analysis		
Appearance	Off White fine powder	Visual
Content Assay	≥20.0% Acetic Acid	Titration
Loss on drying	≤5.0%	USP<731>
Residue on ignition	≤5.0%	USP <281>
Identification	Positive	Conforms
Residue on Ignition	≤5.0%	Conforms
Bulk Density	0.4-0.6g/ml	Conforms
Tap Density	0.6-0.9g/ml	Conforms
Particle Size	100% pass 80 mesh	Conforms
Heavy metals		
Total Heavy Metals	≤10ppm	EP 2.4.8
Lead (Pb)	≤3ppm	EP 2.4.20
Arsenic (As)	≤2ppm	EP 2.4.20
Cadmium (Cd)	≤1ppm	EP 2.4.20
Mercury (Hg)	≤0.1ppm	EP 2.4.20
Microorganism		
Total Plate Count	≤10,000 cfu/g	EP 2.6.12
Yeast & Mould	≤100 cfu/g	EP 2.6.12
E.Coli	Negative	EP 2.6.13
Coliforms	Negative	EP 2.6.13
Salmonella	Negative	EP 2.6.13
Staphylococcus aureus	Negative	EP 2.6.13
Storage & Shelf Life		
Package	25kgs/drum	
Shelf life	The shelf life for the product is 24 months from date of production. Use it as soon as possible once it is opened.	
Storage	Store in a tightly closed container in a dry place, protected from light	

2.Origin & Ingredient			
Country of origin of the product: China		Origin statement: available <input checked="" type="checkbox"/>	
This product is a pure material <input checked="" type="checkbox"/>		This product is a compound material <input type="checkbox"/>	
Animal origin	<input type="checkbox"/> bovine	Specific Source: /	
	<input type="checkbox"/> porcine	Specific Source: /	
	<input type="checkbox"/> avian	Specific Source: /	
	<input type="checkbox"/> Others:	Specific Source: /	
Synthetic	<input type="checkbox"/>	Starting material:Sodium Sarcosine, Cyanamide	origin: China
Biotechnological processing	<input type="checkbox"/> Catalysis By Enzymes	Name Of Enzyme: / Sources Of Enzymes: /	
	<input checked="" type="checkbox"/> Fermentation	Source: Apple	
Botanical Origin	Botanical Name:	Malus pumila Mill.	
	Part:	Fruit	
	Wild Or Cultivated:	/	
	Country Of Origin:	China	
	Solvent Used:	/	

3.Nutrition Data	
Nutritional Composition	<input checked="" type="checkbox"/> Per 100g <input type="checkbox"/> Per Serving
<input checked="" type="checkbox"/> Energy(Kj) <input type="checkbox"/> Energy(Kcal)	1505kj
Protein(G)	0
Fat(G)	0
Carbohydrates(G)	88.5
Sodium	19mg
Remarks: Nutrition Data Are Obtained By 3 <sup>rd</sup> Party Lab; Tested On A Yearly Basis	

4. GMO declaration	Conforms	Not Conforms
The product does not contain or consist of GMO	<input checked="" type="checkbox"/>	<input type="checkbox"/>
The product is not produced from GMO or not contain ingredients produced from GMO (irrespective of whether there is NDA or protein of GM origin in the final production)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
This product is not produced by means of GM microorganism including precursor substances, e.g. with GMOs or Genetically Modified microorganisms processing aids(bacteria, yeast,..)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
This product is not produced with the help of enzymes, which were obtained from GMOs	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Does the product contain any ingredients from animal?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
If yes, are genetically modified crops contained in the feed for the animal?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
We confirm that this product complies with regulations EC/1829/2003 and EC1830/2003 and keep NON-GMO statement available		<input checked="" type="checkbox"/>

## 5. Allergen declaration

We have carefully reviewed this product according to EU Regulation 1169/2011 and modifications and confirm the following:

	Direct incorporation as a base raw material or in a derivative form (don't forget the carriers, the additives and the processing aids)		CROSS CONTAMINATION					
			Presence on the production line		Presence on the production workshop		Presence on the production factory	
	Yes (precise nature)	No	Yes (precise the nature)	No	Yes (precise the nature)	No	Yes (precise the nature)	No
Cereals containing gluten(1) and products thereof		N		N		N		N
Crustaceans and products thereof		N		N		N		N
Eggs and products thereof		N		N		N		N
Fish and products thereof (2)		N		N		N		N
Peanuts and products thereof		N		N		N		N
Soybeans and products thereof (3)		N		N		N		N
Milk and products thereof (including lactose)(4)		N		N		N		N
Nuts (5) or products thereof		N		N		N		N
Celery and products thereof		N		N		N		N
Mustard and products thereof		N		N		N		N
Sesame seeds and product thereof		N		N		N		N
Sulphur dioxide and sulphites at concentrations of more than 10mg/kg or 10 mg/l expressed as SO <sub>2</sub>		N		N		N		N
Lupines and products thereof		N		N		N		N
Mollusc and product thereof		N		N		N		N

- (1) Cereals which contain gluten (i.e. wheat, rye, barley, oats, spelt, kamut or their hybridised strains) except: wheat-based glucose syrups including dextrose, wheat-based maltodextrins, glucose syrups based on barley, cereals used for making distillates or ethyl alcohol of agricultural origin for spirit drinks and other alcoholic beverages;
- (2) Except: fish gelatine used as carrier for vitamin or carotenoid preparations, fish gelatine or Isinglass used as fining agent in beer and wine;
- (3) Except fully refined soybean oil and fat, natural mixed tocopherols (E306), natural D-alpha tocopherol, natural D-alpha tocopherol acetate, natural D-alpha tocopherol succinate from soybean sources; vegetable oils derived phytosterols and phytosterol esters from soybean sources; plant stanol ester produced from vegetable oil sterols from soybean sources;
- (4) Except when used for making distillates or ethyl alcohol of agricultural origin for spirit drinks and other alcoholic beverages, lactitol;
- (5) almond (*Amygdalus communis* L.) hazelnuts (*Corylus avellana*), walnut (*Juglans regia*), cashew (*Anacardium occidentale*), pecan nuts (*Carya illinoensis*), brazil nut (*Bertholletia excelsa*), pistachio nut (*Pistacia vera*), macadamia nut and queensland nut (*Macadamia terniflora*) and products thereof, except nuts used for making distillates or ethyl alcohol of agricultural origin for spirit drinks and other alcoholic beverages;

## 6. NON IRRADIATION

(According to EU directive 1999/2/EC & 1999/3/EC)

This product has not been treated with ionising radiation	<input checked="" type="checkbox"/> Conforms	<input type="checkbox"/> Not Conforms
None of the raw materials we used for this product have been treated with ionising radiation.	<input checked="" type="checkbox"/> Conforms	<input type="checkbox"/> Not Conforms
We confirm above Non-Irradiation statement is available	<input checked="" type="checkbox"/>	

<b>7.NANOMATERIAL</b> (according to EU Regulation (EU) No. 1169/2011)		
This product does not contain any nanomaterials as defined in EU food legislation	<input checked="" type="checkbox"/> Conforms	<input type="checkbox"/> Not Conforms
This product has not been made with nanotechnology	<input checked="" type="checkbox"/> Conforms	<input type="checkbox"/> Not Conforms
We confirm above Non-Nanomaterial statement is available	<input checked="" type="checkbox"/>	

<b>8. Residual solvents</b> (according to UE Directive 2009/32 modified by(UE)2010/59; EP5.4;USP476;ICH Q3C(R7))		
For this product following solvents are used during production process: Solvent A: Ethanol                      Max residual level: Ethanol < 0.5%	<input checked="" type="checkbox"/> solvent used <input type="checkbox"/> solvent not used	
We confirm solvent residual of this product complies with:	<input checked="" type="checkbox"/> EP5.4 <input checked="" type="checkbox"/> USP <476> <input checked="" type="checkbox"/> ICH Q3C(R7) <input checked="" type="checkbox"/> Directive 2010/59/EU <input type="checkbox"/> NA	
We confirm Solvent residual statement is available	<input checked="" type="checkbox"/>	

<b>9.Pesticide residual</b> (according to EC 396/2005; EP07; USP <561>)		
This product is of vegetable origin	<input checked="" type="checkbox"/> Conforms	<input type="checkbox"/> Not Conforms
We confirm pesticide residual of this product complies with:	<input checked="" type="checkbox"/> EC 396/2005 <input checked="" type="checkbox"/> EP 07/2008 <input checked="" type="checkbox"/> USP<561> <input type="checkbox"/> N/A	
Pesticide residual statement available	<input checked="" type="checkbox"/>	

<b>10.BSE/TSE information</b> (according to EU legislation 999/2001; EP general chapter 5.2.8)		
Cattle, sheep, goats and animals that are naturally susceptible to infect with transmissible spongiform encephalopathy agents or susceptible to infection through the oral route other than humans and non-human primates are defined as “ESE-relevant animal species Pigs ad birds are not naturally susceptible to infection via the oral route; therefore, they are not TSE-relevant animal species. Dogs, rabbits and fish are not TES-relevant animal species.”		
the product contains no ingredients of ruminant origin and no materials derived from, or exposed to ruminants affected by or under quarantine for Transmitting Transmissible Spongiform Encephalopathy (TSE) / Bovine Spongiform Encephalopathy (BSE)	<input checked="" type="checkbox"/> Conforms	<input type="checkbox"/> Not Conforms <input type="checkbox"/> NA
In the manufacturing of this product, there is no any raw or source material and /or reagent used that is of animal origin i.e. bovine, serum-albumin, enzymes, culture broths including those used to prepare working or master cell tanks	<input checked="" type="checkbox"/> Conforms	<input type="checkbox"/> Not Conforms



Equipment/systems/tools use for processing or storage of the material do not come into contact at any time with materials of animal origin (e.g., components of media filler used to check such system)	<input checked="" type="checkbox"/> Conforms <input type="checkbox"/> Not Conforms
The material is not purified by using solvents, chromatographic media or buffers that contain components of animal origin	<input checked="" type="checkbox"/> Conforms <input type="checkbox"/> Not Conforms
We confirm this product complies with:	<input checked="" type="checkbox"/> EU legislation 999/2001 & <input checked="" type="checkbox"/> EP general chapter 5.2.8
We confirm BSE/TSE statement is available	<input checked="" type="checkbox"/> Conforms

### 11. Contaminants information

(according to EU Regulation No 915/2023 and NO.629/2008 as regards maximum levels for certain contaminants in foodstuff)

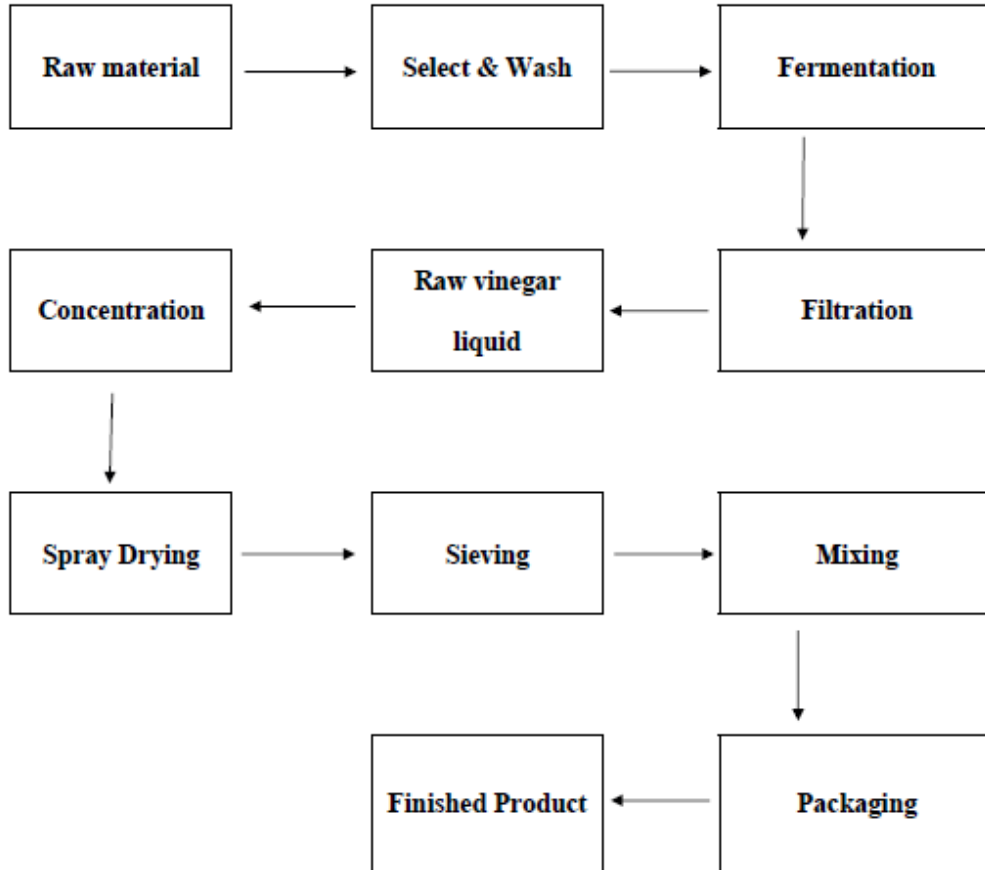
<ul style="list-style-type: none"><li>• Food supplements containing <math>\geq 80\%</math> peanuts or oilseeds Aflatoxins B1 <math>\leq 2.0</math> ppb Aflatoxins B1+B2+G1+G2 <math>\leq 4.0</math> ppb</li><li>• Other food supplements Aflatoxins B1 <math>\leq 5.0</math> ppb Aflatoxins B1+B2+G1+G2 <math>\leq 10.0</math> ppb</li><li>• Food supplements, cocoa fibre, banana chips, dried herbs and dried spices Ochratoxin A <math>\leq 5.0</math> ppb</li></ul>	<input checked="" type="checkbox"/> Conforms <input type="checkbox"/> Not Conforms <input type="checkbox"/> NA
<ul style="list-style-type: none"><li>• Melamine</li></ul>	<input checked="" type="checkbox"/> Conforms
Applicable to: food supplements, cocoa fibre, banana chips, dried herbs and dried spices <ul style="list-style-type: none"><li>• Benzo(a)pyrene <math>\leq 1.0</math> ppb</li><li>• The sum of PAH4 (PAH4; benzo[a]pyrene, chrysene, benz[a]anthracene and benzo[b]fluoranthene) <math>\leq 10.0</math> ppb</li></ul>	<input checked="" type="checkbox"/> Conforms <input type="checkbox"/> Not Conforms <input type="checkbox"/> NA
We confirm this product complies with Regulation (EU) 915/2023 and NO.629/2008 and keep compliance statement available	<input checked="" type="checkbox"/> Conforms

### 12. Others

We confirm we could meet with the requirement on hygiene of foodstuffs according to Reg 852/2004.  
We confirm we could meet with the requirement on general principles and requirements of food law according to REGULATION (EC) No 178/2002



## Flow Chart



## Material Safety Data Sheet (MSDS)

1.	IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY	
	COMMON NAME	Apple Cider Vinegar Powder
	BOTANICAL SOURCE	Malus pumila Mill.
	COMPANY NAME	Confidential
2.	INFORMATION ON SUBSTANCE	
	PRINCIPAL-HAZARDOUS COMPONENT (S)	Non
	CAS No	64-19-7
	APPEARANCE	Off-white fine Powder
3.	HAZARDS INFORMATION ON SUBSTANCE	
	HEALTH HAZARDS	No data available yet
	FIRE AND EXPLOSION HAZARDS	No data available yet
	ENVIRONMENTAL HAZARDS	No environmental hazards as far as to our knowledge.
4.	FIRST-AID MEASURES	
	INHALATION	Remove to well-ventilated area. Seek medical attention.
	SKIN CONTACT	Washed by soap water or clear water if it comes into contact with skin.
	EYE CONTACT	Washed by clear water if contacting with eyes. Sent to hospital if having excessive intake by mistake.
	INGESTION	Wash out mouth with water if conscious. Seek medical attention.
	PROTECT MEASURES	Wearing protective clothes and safety gloves when operating.
5.	FIRE-FIGHTING MEASURES	
	EXTINGUISHER MEDIA	Water Spray, Carbon Dioxide, Dry Chemical Powder or other appropriate form.
	SPECIAL FIRE FIGHTING PROCEDURES	Wear self-containing breathing apparatus against toxic fumes and protective clothing.
	FIRE & EXPLOSION HAZARDS	Not combustible, flammable or explosive. Emits toxic fumes under fire conditions.



6.	ACCIDENTAL RELEASE MEASURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED	Wear protective equipment. Sweep up, place in proper container for waste disposal, do not get water inside container. Avoid raising dust. Ventilate area & wash site after material pickup is complete.	
CLEANING METHODS	Wash premises, equipment and working surfaces with water.	
WASTE DISPOSALS METHODS	Dispose of as solid organic waste in accordance with national and local regulations	
7.	HANDLING & STORAGE	
HANDLING&STORAGE	Keep far away from kindled material, heat source and direct light.	
	Keep the container airtight. Should be separately stored form oxidant and edible chemical compound.	
8.	EXPOSURE CONTROLS / PERSONAL PROTECTION	
OCCUPATIONAL EXPOSURE LIMITS		
GB	TWA:	Not established
D	TWA:	Not established
USA	TWA/TLV:	Not established
USA	TWA/STEL:	Not established
VENTILATION	Local exhaust may be needed.	
PERSONAL PROTECTIVE EQUIPMENT	Protective goggles, gloves. Coveralls, apron, boots. Respiratory protection with dust-filter may be needed.	
9.	PHYSICAL AND CHEMICAL PROPERTIES	
APPEARANCE	Off-white fine powder	
BOILING POINT	n.a.	
MELTING POINT	n.a.	
AUTO-IGNITION TEMP.	n.a.	
WATER SOLUBILITY	Part of water soluble	
FLASH POINT	n.a.	
EXPLOSIVE LIMITS IN AIR	n.a.	
10.	STABILITY & REACTIVITY	
STABILITY & REACTIVITY	The compound is stable at room temperature in closed containers.	
CONDITIONS TO AVOID	Incompatible materials, light, dust generation, moisture, excess heat, strong oxidants.	



MATERIALS TO AVOID	Oxidizing agents
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon monoxide, carbon dioxide.
11. TOXICOLOGICAL INFORMATION	
ACUTE ORAL LD50 (MICE/RATS)	Not known
IRRITATION TESTS (EYES)	Not known
INHALATION	Not known
12. ECOLOGICAL INFORMATION	No Data available yet.
13. DISPOSAL CONSIDERATIONS	
14. TRANSPORT INFORMATION	
UN	UN No. Not classified as dangerous goods
ADR	Not restricted
DGR	Not restricted
IMDG	Not restricted
15. REGULATORY INFORMATION	Data not available
16. OTHER INFORMATION	<p>Apple Cider Vinegar Powder has been proved no offensive smell, no infective danger or any other danger when transported.</p> <p>The information (including data and statements) in this Material Safety Data Sheet (MSDS) is based on experimental data and believed to be true and accurate as of the date issued. But all recommendations or suggestions are made without guarantee, since the conditions and methods of using the product and information referred to herein beyond the control of us. It is our policy, to assist our customers and to help solve particular problems, which may arise in applying our products.</p>