



Specification

Product Name: Crisp Film Powder

Product Code: SPEC0020

Description:

Crisp Film is a fine white creamy powder that forms clear and flexible films without requiring hydration or cooking. Crisp Film is a modified high amylose corn starch. Products that are thickened with Crisp Film dry into a crispy glass at room temperature. It forms flexible, clear films with an excellent sheen that are fast-drying and flavour-free. It acts as a protective barrier when used as a coating for fried foods and it increases the crispness of the product due to less oil pick up. Use with fruit and vegetable purees to make Cannelloni tubes, various shapes and baskets, or add to biscuits to give an extra crunch. Crisp Film can be used to impart internal bonding strength and texture to formed meat, potato and vegetable products and to form fruit leather.

Specifications:

Chemical and Physical Properties			
	Min	Max	Unit
Moisture <i>as packed</i>		15.0	%
pH <i>20% aqueous suspension</i>	4.5	7.0	-
Physical Appearance		Typical	
Colour		White / creamy	
Form		Fine powder	

Microbiological Limits		
	Max	Units
TVC	10000	cfu/g
Yeast	200	cfu/g
Mould	200	cfu/g
E. Coli	Negative	Per g
Salmonella	Negative	Per 25g

Additional Information	
Contaminants	Complies with Regulation (EC) 1881/2006 as amended.
Pesticides	Complies with Regulation (EC) 396/2005 as amended.

Heavy Metals		
	Typical	Units
Arsenic	1	ppm

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Lead	2	ppm
Cadmium	0.1	ppm
Mercury	0.1	ppm

Ingredients:

Modified Maize Starch (E1420).

Dietary Information:

Suitable for Vegans & Vegetarians, Non-GMO, Gluten Free.

Nutritional Information: Based on typical content/100g: Energy: 1663kj/391kcal, Fat: 0.15g, Of which saturates: 0.1g, Carbohydrate: 97g, Of which sugars: 0g, Protein: 0.5g, Salt: <0.5g.

Storage:

Store in dry, cool conditions and not in direct sunlight.

Packaging:

Size	EAN
100g	5056191001208
250g	5056191001215
500g	5056191001222
5kg	5056191008894
10kg	5056191008900

Shelf Life:

36 months from production date.

Allergen Declaration

Allergen	Contains (Y/N)
Cereals containing Gluten	N
Crustaceans	N
Eggs	N
Fish	N
Peanuts	N
Soybeans	N
Milk	N
Nuts	N
Celery	N
Mustard	N
Sesame Seeds	N
Sulphur Dioxide and Sulphites (at concentration of more than 10mg/kg or 10mg/L in terms of Sulphur Dioxide)	N
Lupin	N
Molluscs	N



Material Safety Data Sheet

1: Identification of the substance and of the company:

1.1 – Product identifier:

Product code: SPEC0020, Product name: Crisp Film Powder, EC No (EU index No): 232-697-6, CAS No: 9005-25-8. Pure substance/mixture: Substance.

1.2 – Relevant identified uses of the substance or mixtures and uses advised against: Recommended use: Food/Feed additive industrial application.

1.3 - Details of the supplier of the safety data sheet:

Producer: Company: Special Ingredients Ltd, 4 Foxwood View, Chesterfield, S41 9RN. Tel: 0044 (0)1246 906247. E-mail address: <https://specialingredients.co.uk/pages/contact>

1.4 – Emergency telephone number:

Emergency Telephone Contact: 07387 330318.

2: Hazards Identification:

2.1 – Classification of the substance or mixture:

Not classified.

2.2 – Label elements:

Not classified, Hazard statements: Not classified, EUH210- Safety data sheet available on request.

2.3 – Other hazards:

No information available.

3: Composition And Information on Ingredients:

3.1 – Substances:

Chemical Name	Weight%	EC No (EU Index No)	UK REACH registration number	Classification according to GB CLP (S) 2020/1567 as amended)	Specific concentration limit (SCL)	M-Factor	M-Factor (long term)
STARCH 9005-258	90-100%	232-697-6	-	-	-	-	-

Full text of H- and EUH phrases: see section 16.

This product does not contain substances of very high concern at a concentration $\geq 0.1\%$ (UK REACH Article 59).

4: First Aid Measures:

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**4.1 – Description of first aid measures:**

Eye contact: Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor, Skin contact: Wash skin with soap and water, In the case of skin irritation or allergic reactions see a doctor, Ingestion: Wash mouth.

4.2 – Most important symptoms and effects, both acute and delayed:

Eyes: May cause temporary eye irritation.

4.3 – Indication of any immediate medical attention and special treatment needed:

Note to doctors: Treat symptomatically.

5: Firefighting Measures:**5.1 – Extinguishing media:**

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Large fire: CAUTION: Use of water spray when fighting fire may be inefficient, Unsuitable extinguishing media: Do not scatter spilled material with high pressure water streams.

5.2 – Special hazards arising from the substance or mixture:

Hazardous combustion products: Carbon oxides.

5.3 – Advice for firefighters:

Special protective equipment and precautions for firefighters: Fire fighters should wear self-contained breathing apparatus and full fire-fighting turnout gear, Use personal protection equipment.

6: Accidental Release Measures:**6.1 – Personal precautions, protective equipment and emergency procedures:**

Personal precautions: Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. For emergency responders: Use personal protection recommended in Section 8.

6.2 – Environmental precautions:

Environmental precautions: See section 12 for additional ecological information.

6.3 – Methods and material for containment and cleaning up:

Methods for containment: Prevent further leakage or spillage if safe to do so, Methods for cleaning up: Remove spillage with vacuum cleaner, if not possible, collect spillage with shovel, broom or the like, Flush area with flooding quantities of water, Collect spillage in containers, seal securely and deliver for disposal according to local regulations, prevention of secondary hazards: Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4 – Reference to other sections:

See section 8 for more information, See section 13 for more information.

7: Handling and Storage:**7.1 – Precautions for safe handling:**

Advice on safe handling: Avoid contact with eyes, skin and clothing, Ensure adequate ventilation, General hygiene considerations Wash hands before breaks and immediately after handling the

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product.

7.2 – Conditions for safe storage, including any incompatibilities:

7.3 – Specific end use (s):

Specific use(s): See section 1 for more information. Risk management methods (RMM): The information required is contained in this safety data sheet.

8: Exposure Controls/Personal Protection:

8.1 – Control parameters: Exposure Limits:

Chemical Name	United Kingdom
Starch 9005-25-8	TWA: 10 mg/m ₃ TWA: 4mg/m ₃ STEL: 30mg/m ₃ STEL: 12 mg/m ₃

Biological occupational exposure limits: This product, as supplied, does not contain any hazardous materials with biological limits established by the region-specific regulatory bodies. Derived no effect level (DNEL) – Workers: No information available, Derived no effect level (DNEL) – General public: No information available, Predicted no effect concentration (PNEC): No information available.

8.2 – Exposure Controls:

Engineering controls: No information available, Personal protective equipment: Eye/face protection Wear safety glasses with side shields (or goggles), Use protection according to EN 166), Hand protection: Ensure that the breakthrough time of the glove materials is not exceeded, Refer to glove supplier for information on breakthrough time for specific gloves, Protective gloves, Gloves must conform to standard EN 374. Skin and body protection: No special protective equipment required, Respiratory protection: No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

9: Physical and Chemical Properties:

9.1 – information on basic physical and chemical properties:

Physical state: solid, Appearance, Dusty powder, Granules, Crystalline powder, Solid, Colour: Cream or white/off-white, to light (or pale), yellow, Odour: Characteristic, Odour threshold: No information available.

Property	Values	Remarks – Method
Melting point/freezing point		No information available
Initial boiling point and boiling range		No information available
Flammability		No information available
Flammability limit in Air		No information available
Upper flammability or explosive limits		

Lower flammability or explosive limits		
Flashpoint		No information available
Autoignition temperature	390°C	
Decomposition temperature		No information available
pH	7	pH (diluted solution): ~7 @ 50%
pH (as aqueous solution)		No information available
Kinematic viscosity		No information available
Dynamic viscosity		No information available
Water solubility	Slightly soluble in water	
Solubility(ies)		No information available
Partition coefficient	Log Pow: < 2	
Vapour pressure		No information available
Relative density		No information available
Bulk density	0.5 – 0.7 kg/l	
Relative vapour density		No information available
Particle characteristics		No information available
Particle size		
Particle size distribution		
Explosive properties		No information available
Oxidising properties		No information available

9.2 – Other information

10: Stability and Reactivity:

10.1 – Reactivity:

Stable under recommended storage conditions.

10.2 – Chemical stability:

Stable under normal conditions, Explosion data: Sensitivity to mechanical impact: None, Sensitivity to static discharge: None.

10.3 – Possibility of hazardous reactions:

Possibility of hazardous reactions: None under normal processing.

10.4 – Conditions to avoid:

Conditions to avoid: Extremes of temperature and direct sunlight.

10.5 – Incompatible materials:

Incompatible materials: None known based on information supplied.

10.6 – Hazardous decomposition products:

Hazardous decomposition products: Carbon oxides.

11: Toxicology Information:**11.1 – Information on toxicological effects:**

Information on likely routes of exposure: Product information: Inhalation: May cause irritation, Eye contact: May cause temporary eye irritation, Skin contact: May cause slight irritation, Ingestion: Gastrointestinal discomfort. Symptoms related to the physical, Chemical and toxicological characteristics: Symptoms: No information available. Acute toxicity: Numerical measures of toxicity: No information available. Delayed and immediate effects as well as chronic effects from short and long-term exposure. Skin corrosion/irritation: No information available, Serious eye damage/ eye irritation: No information available, Respiratory or skin sensitisation: No information available, Germ cell mutagenicity: No information available, Carcinogenicity: No information available, Reproductive toxicity: No information available, STOT - single exposure: No information available, STOT – repeated exposure: No information available, Aspiration hazard: No information available, Other adverse effects: No information available.

12: Ecological Information:**12.1 – Toxicity:**

Ecotoxicity: Not considered to be harmful to aquatic life.

12.2 – Persistence and degradability:

Persistence and degradability: No information available.

12.3 – Bioaccumulative potential:

Bioaccumulation: There is no data for this product.

12.4 – Mobility in soil:

Mobility in soil: Slightly soluble.

12.5 – Results of PBT and vPvB assessment:

PBT and vPvB assessment: The product does not contain any substance(s) classified as PBT or vPvB.

12.6 – Other adverse effects:

No information available.

13: Disposal Considerations:**13.1 – Waste treatment methods:**

Waste from residues/unused products: Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. Contaminated packaging: Do not reuse empty containers.

14: Transport Information:

IATA: UN number or ID number: Not regulated, UN proper shipping name: Not regulated, Transport hazard class(es): Not regulated, Packing group: Not regulated, Environmental hazards: Not regulated, Special precautions for user special provisions: None.



IMDG: UN number or ID number: Not regulated, UN proper shipping name: Not regulated, Transport hazard class(es): Not regulated, Packing group: Not regulated, Environmental hazards: Not applicable, Special precautions for user special provisions: None. Maritime Transport in bulk according to IMO instruments: No information available.

RID: UN number or ID number: Not regulated, UN proper shipping name: Not regulated, Transport hazard class(es): Not regulated, Packing group: Not regulated, Environmental hazards: Not applicable, Special precautions for user special provisions: None.

ADR: UN number or ID number: Not regulated, UN proper shipping name: Not regulated, Transport hazard class(es): Not regulated, Packing group: Not regulated, Environmental hazards: Not applicable, Special precautions for user special provisions: None.

15: Regulatory Information:

15.1 – Safety, Health and environmental regulations/ legislation specific for the substance or mixture:

National regulations: authorisations and or restrictions on use: This product does not contain substances subject to authorisation (UK REACH – Annex XIV), This product does not contain substances subject to restriction (UK REACH – Annex XVII), Persistent organic pollutants – Not applicable, Export notification requirements: Not applicable, Named dangerous substances per COMAH Regulations 2015 (as amended): Not applicable, The ozone-depleting substances regulations 2015: Not applicable, The biocidal products Regulations 2001 (as amended): Not applicable, The water environment (Water Framework Directive) (England and Wales) Regulations 2017 (as amended): Not applicable, Poisons act 1972 (Explosive Precursors) Regulations (as amended): Not applicable. International inventories: TSCA: Contact supplier for inventory compliance status, DSL/NDSL: Contact supplier for inventory compliance status, EINECS/ELINCS: contact supplier for inventory compliance status, ENCS: contact supplier for inventory compliance status, IECSC: Contact supplier for inventory compliance status, KECL: Contact supplier for inventory compliance status, PICCS: Contact supplier for inventory compliance status, AIIC: Contact supplier for inventory compliance status, NZIoC: Contact supplier for inventory compliance status. Legend: TSCA – United states toxic substances control act section 8(b) inventory, DSL/NDSL: Canadian domestic substances list/ Nondomestic substances list, EINECS/ ELINCS: European Inventory of Existing Chemical Substances/ European List of Notified Chemical Substances, ENCS: Japan Existing and New Chemical Substances, IECSC: China Inventory of Existing Chemical Substances, KECL: Korean Existing and Evaluated Chemical Substances, PICCS: Philippines Inventory of Chemicals and Chemical Substances, AIIC: Australian Inventory of Industrial Chemicals, NZIoC: New Zealand Inventory of Chemicals.

15.2 – Chemical safety assessment:

Chemical safety report: No information available.

16: Other Information:

Key or legend to abbreviations and acronyms used in the safety data sheet: Legend: SVHC: Substances of Very High Concern for Authorisation: Legend: Section 8 Exposure controls/ Personal protection: TWA: TWA (time-weighted average), Ceiling: Maximum limit value, +: Sensitisers, STEL: STEL (short term exposure limit), *: Skin designation.

This material safety data sheet complies with the requirements of UK REACH Regulations (SI 2019/758 as amended). Take note of directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

The information contained herein is to the best of our knowledge, but since the circumstances and conditions in which it may be used are beyond our control, we do not accept any liability whatsoever,

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however arising, which results directly or indirectly from the use of the product.