

PRODUCT TECHNICAL DOSSIER

RUTIN POWDER

Product Code:

P1807

Raw Material Full Name:

Rutin

Raw Material Full Botanical/Chemical/Latin/Trade Name/Synonyms:

Saphora Japonica L.

This material is Food Grade

Food Grade

Limit/Range/Specification:

95% - 101%

Means of Identification:

TLC

Ratio of Material:

The ratio of dry material to dry extract powder is 6~8:1

CAS Number:

153-18-4

EC/EINECS Number:

205-814-1

Molecular Formula for the raw material:

C₂₇H₃₀O₁₆

Average Molecular weight:

610.51

Solubility in Water:

Product Code: P1807

Version: 3

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Insoluble in Water

Solubility in Alcohol:

Soluble in Alcohol

Particle Size:

80 Mesh

Percentage passed through:

NLT 95%

Bulk Density:

0.30-0.50g/ml

Tapped Density:

0.40-0.60g/ml

Specific Gravity:

0.30-0.60g/ml

Loss on Drying:

NMT 9%

Residue on Ignition:

NMT 0.5%

Country of Origin:

China

Country of Origin of the Manufacture:

China

Base Source/Start Material:

Bud of Sophora Japonica L



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Origin of Product – Synthetic, Plant, Mineral, Animal, Fish or Fermented:

Plant

Species used:

Sophora Japonica L

Part of the plant used:

Bud

Solvents used:

Ethanol & water

What is the extraction/processing used? What solvents are used and at what ratio's?

Extraction by water and ethanol; 30% water & 70% ethanol

Material is:

100%

Compound Ingredients:

None

Shelf Life from Date of Manufacture:

2 years

Storage Conditions:

Store in a cool and dry place, keep away from strong light and heat

Appearance: (Visual)

Fine Powder

Colour: (Visual)

Greenish - Yellow

Flavour/Taste:

Characteristic

Odour:

Characteristic





Microbiological Test

Total Viable Count:

Max 10,000cfu/g

Yeast & Moulds:

Max 300cfu/g

E.Coli:

Negative/10g

Salmonella:

Negative/25g

Metals

Lead (Pb):

Max 2ppm

Cadmium (Cd):

Max 1ppm

Mercury (Hg):

Max 0.1ppm

Arsenic (As):

Max 1ppm

Pharmacopeia Standard Used:

CP2010

There are no nuts in this recipe and are no nuts on site, however we cannot guarantee that the raw materials entering the site are nut free.





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ALLERGENS	Product Free From YES/NO	Listed Item on Site at Manufacturer YES/NO	If YES, Please Comment
Free from Peanuts and Peanut Derivatives (including possible cross contamination)	YES	NO	
Free from other Nut and Nut Derivatives <i>Almond (Amygdalus communis L.), Hazelnut (Corylus avellana), Walnut (Juglans regia), Cashew (Anacardium occidentale), Pecan nut (Carya illinoensis (Wangenh.) K. Koch), Brazil nut (Bertholletia excelsa), Pistachio nut (Pistacia vera), Macadamia nut and Queensland nut (Macadamia ternifolia)</i>	YES	NO	
Free from Sesame Seeds and Sesame Seed Derivatives	YES	NO	
Free from other Seeds and Seed Derivatives (Poppy Seeds, Cotton Seeds, Sunflower Seeds)	YES	NO	
Free from Milk and Milk Derivatives (including lactose)	YES	NO	
Free from Egg and Egg Derivatives	YES	NO	
Free from Cereals and Derivatives containing OR POTENTIALLY CONTAMINATED WITH Gluten (<i>wheat, wheatgrass, faro, freekeh, spelt, kamut, rye, oats, barley, barley grass</i>)	YES	NO	
Free from Soya and Soya Derivatives	YES	NO	
Free from Lupin and Lupin Derivatives	YES	NO	
Free from Mustard and Mustard Derivatives	YES	NO	
Free from Celery or Celery Derivatives (including Celeriac)	YES	NO	
Free from Fish and Fish Derivatives	YES	NO	
Free from Molluscs and their Derivatives	YES	NO	
Free from Crustaceans and their Derivatives	YES	NO	
Free from Sulphur Dioxide and Sulphites (E220, E228) at levels > 10mg/kg or 10mg/litre	YES	NO	



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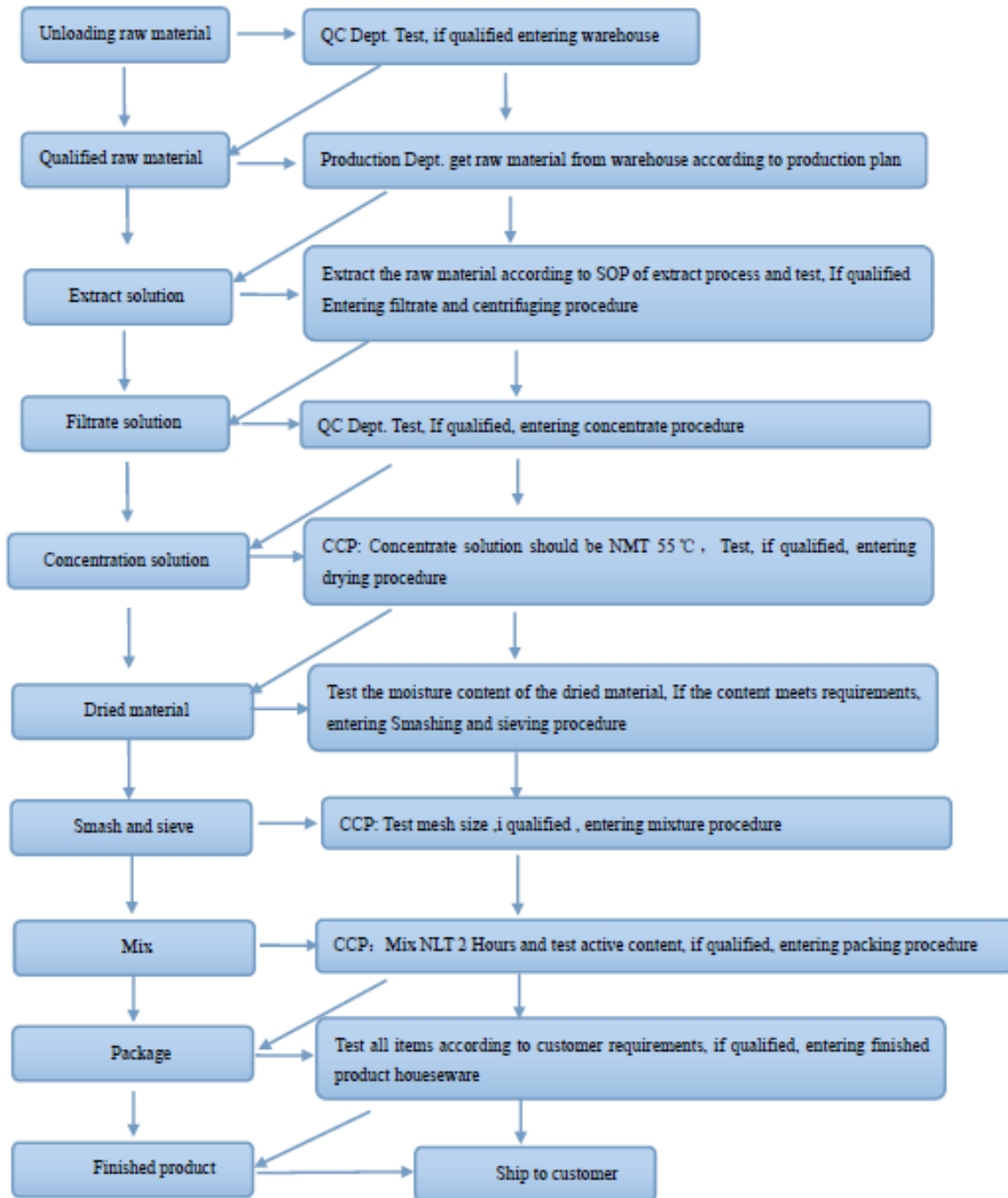
ADDITIVES / CONTAMINANTS / DIETARY REQUIREMENTS	Product Free From YES/NO	Listed Item on Site at Manufacturer YES/NO	Where applicable, is there risk of cross-contamination? YES/NO or N/A
Free from Additives	YES	NO	
Free from Antioxidants	YES	NO	
Free from Ethylene Oxide	YES	NO	
Free from Gelatine	YES	NO	
Free from Flavourings (Artificial / Nature Identical / Natural / Smoked)	YES	NO	
Free from Maize / Corn and any Derivatives	YES	YES	NO
Free from Legumes / Pulses	YES	NO	
Free from Rice and Rice Derivatives	YES	NO	
Free from Added Salt	YES	NO	
Free from Added Sugar / artificial or natural sweeteners	YES	NO	
Free from Aspartame	YES	NO	
Free from BHA / BHT (E320 / E321)	YES	NO	
Free from Caffeine	YES	NO	
Free from Colours (Artificial / Nature Identical / Natural / Smoked)	YES	NO	
Free from Dextrose	YES	NO	
Free from Dioxins	YES	NO	
Free from MSG (Added and Naturally Occurring E621) or Glutamates (E620 to E625)	YES	NO	
Free from Nucleotides (E627, E630, E631, E635)	YES	NO	
Free from Polyols (sugar alcohols)	YES	NO	
Free from Benzoates (E210 / E219)	YES	NO	
Free from Sorbic Acid (E200, E203)	YES	NO	
Free from any other Preservatives	YES	NO	
Free from Ethanol	NO	YES	NO
Free from Honey	YES	NO	
Free from Lactose	YES	NO	
Free from Yeast and Yeast Derivatives	YES	NO	
Free from All Animal Products (Beef, Pork, Poultry or other) and Derivatives (which may include growth/yield hormones, antibiotics etc.)	YES	NO	
Free from Bovine Products or Derivatives (which may include growth/yield hormones, antibiotics etc.)	YES	NO	



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Production Flow Chart





CONFIRMATION OF BSE/TSE STATUS

This is to certify that this product complies with all relevant current UK and EU Legislative requirements in regard to Transmissible Spongiform Encephalopathies (TSE) and Bovine Spongiform Encephalopathy (BSE) for human food, and so is free of TSE/BSE.

This is also to certify that, during the course of their manufacture, the above-mentioned product did not come into contact with any materials, which could be derived from TSE/BSE risk materials.

CONFIRMATION OF GM STATUS

This is to certify that this product is not manufactured from GM raw materials and is therefore not subject to labelling under regulations 1829/2003/EC and 1830/2003/EC.

CONFIRMATION OF NON IRRADIATION STATUS

This is to certify that this product, whole or in part, has not been subjected to Ionising Radiation as per European Directives 1999/2/EC and 1000/3/EC.

CONFIRMATION OF NANDROLONE STATUS

This is to certify that this product, whole or in part, has not come into contact with Nandrolone or any of its precursors in any way.

CONFIRMATION OF IOC PRODUCT STATUS

This is to certify that this product, whole or in part, has not come into contact with any product/s, which is banned by the IOC (International Olympics Committee).

CONFIRMATION OF ANIMAL TESTING STATUS

This is to certify that all the products sold by Cambridge Commodities have not been tested on animals in any part of its manufacture in accordance with regulation 86/609/EEC.

CONFIRMATION OF PESTICIDES STATUS

This is to certify that the above-mentioned product complies with the regulation (EC) No.396/2005 of 23rd February 2005 and commission Regulation (EU) No. 559/2011 of 7th June 2011 amending annexes II and III of the above Regulation.





MATERIAL SAFETY DATA SHEET

Section 1 Identification of the Substance/Mixture and of the Company/Undertaking

Product name: Rutin
Cas#: 153-18-4
Company: Cambridge Commodities Limited
Lancaster Way, Ely, Cambridgeshire, CB6 3NX
Tel: 01353 667258. Email: qa@c-c-l.com

Section 2 Hazards Identification

Potential Acute Health Effects: Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion and inhalation

Potential Chronic Health Effects:

Chronic effects: Not available

Mutagenic effects: Not available

Teratogenic effects: Not available

Developmental Toxicity: Not available

Repeated or prolonged exposure is not known to aggravate medical condition.

Section 4 Emergency and First Aid Measures

Eye contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

Serious skin contact: Not available

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not available



Ingestion: Do not induce vomiting unless directed to do so by medical personal. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar tie, belt or waistband.

Serious ingestion: Not available

Section 5 Fire-fighting measures

Flammability of the product: May be combustible at high temperature.

Auto-ignition temperature: Not available.

Flash Points: Not available.

Flammable Limits: Not available.

Products of Combustion: Not available.

Fire Hazards in Presence of Various Substances: Slightly flammable to flammable in presence of heat

Explosion Hazards in presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not Available;

Risks of explosion of the product in presence of static discharge: Not Available.

Fire Fighting Media and Instructions:

SMALL FIRE: Use Dry chemical powder.

LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: As with most organic solids, fire is possible at elevated temperatures

Special Remarks on explosion Hazards: Fine dust dispersed in air in sufficient concentrations, and in presence of an ignition source is a potential dust explosion hazard.

Section 6 Accidental Release Measures

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill: Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.



Section 7 Handling and Storage

Precautions: Keep away from heat. Keep away from sources of ignition. Ground all equipment container material. Do not breath dust. Keep away from incompatibles such as oxidizing agents.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8 Exposure Controls/Personal Protection

Engineering Control: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection: Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/Certified respirator or equivalent. A dust respirator is only necessary if concentration of airborne particulates, has exceeded the exposure limits. Gloves.

Personal protection in case of a large spill: Splash goggles. Full Suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist before handling this product.

Exposure Limits: Particulates not otherwise regulated (Nuisance dust): 15(mg/m³) from OSHA(PEL)[United States] inhalation total. TWA: 5(mg/m³) from OSHA(PEL) [United States] inhalation respirable. Consult local authorities for acceptable exposure limits.

Section 9 Physical and Chemical Properties

Physical state and appearance: Solid. (Powdered solid)

Odour: Not available

Taste: Not available

Molecular Weight: Not available

Colour: Greenish - yellow

pH(1% solution/water): Not available

Boiling point: Not available

Melting point: Not available

Critical temperature: Not available

Specific gravity: Not available

Vapour pressure: Not available



Vapour density: Not available
Volatility: Not available
Odor threshold: Not available
Water/oil Dist. Coeff.: Not available
Ionicity (in water): Not available
Dispersion properties: Not available
Solubility: Insoluble in water

Section 10 Stability and Reactivity

Stability: The product is stable.
Instability: Not available
Condition of instability: Excess heat, incompatible materials
Incompatibility with various substances: Reactive with oxidizing agents
Corrosivity: Non-corrosive in presence of glass
Special remarks on reactivity: Not available
Special remarks on corrosivity: Not available
Polymerization: Will not occur

Section 11 Toxicological Information

Routes of entry: Inhalation, ingestion
Toxicity to animals: LD50: Not available, LC50 Not available
Chronic effects on humans: Not available
Other Toxic effects on humans: Slightly hazardous in case of skin contact(irritant), of inhalation. Non-hazardous in case of ingestion.
Special Remarks on Toxicity to animals: Not available
Special remarks on chronic effects on humans: Not available

Special remarks on other toxic effects on humans:
Acute potential health effects:
Skin: May cause skin irritation by mechanical action.
Eye: May cause eye irritation by mechanical action.
Inhalation: May cause respiratory tract irritation by mechanical action.
Ingestion: Non-hazardous

Section 12 Ecological Information

Eco toxicity: Not available





BOD5 and COD: Not available

Products of biodegradation: Possible hazardous short term degradation products are not likely. However, long term degradation products may rise.

Toxicity of the products of biodegradation: Not available

Special remarks on the products of biodegradation: Not available

Section 13 Disposal Considerations

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulation.

Section 14 Transport Information

DOT Classification: Not a DOT controlled material

Identification: Not available

Special Provisions for transport: Not available

Section 15 Regulatory Information

Federal and state regulations: No products were found

Other regulations: Not available

Other classifications:

WHMIS(Canada): Not controlled under WHMIS(Canada)

DSCL(EEC): This product is not classified according to the EU regulations. Not applicable

HMIS(U.S.A.):

Health hazard: 1

Fire hazard: 1

Reactivity: 0

Personal protection: E

National Fire Protection Association(U.S.A.):

Health: 1

Flammability: 1

Reactivity: 0

Protective equipment: Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Safety glasses.

Section 16 Other Information





This advice is given by Cambridge Commodities Ltd who accepts no legal liability for it. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.

Individuals working with chemicals should consider all chemicals to be potentially hazardous even if their individual hazards may be uncharacterised or unknown.

This Information provided in this document is subject to change and the batch specific Certificate of Analysis should always be referenced.

To be used as per local legislation.

Change History

Version	Change	Customer Notification required Yes / No
1	First Issue	N/A
2	Change due to supplier change in Specification to Meet USP	Yes
3	Changed due to change in supplier	Yes

Document Approval

Originator Job Title	Quality Specialist	Approver Job Title	Assistant Quality Manager
<i>Matthew Vincent</i> Matthew Vincent (Jan 6, 2017)		<i>J. Banas</i>	





Rutin Powder - P1807 - Technical Dossier v3

Adobe Sign Document History

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