



MATERIAL SAFETY DATA SHEET

Vitamin P Rutin Powder

SECTION 1: Manufacturer

Fingres Biotech Inc.

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SECTION 2: Product information data

Product details: Vitamin P Rutin Powder

CAS N°: 153-18-4

EINECS N°: 205-814-1

Chemical name: Rutin

Chemical classification: Flavonoid

SECTION 3: Hazards identification

Target organs: None.

Potential health effects: The toxicological properties of this material have not been investigated. Use appropriate procedures to prevent opportunities for direct contact with the skin or eyes and to prevent inhalation.

SECTION 4: First aid measures

Eyes: Rinse eyes with plenty of water. Seek medical advice if necessary.

Skin: Rinse skin with plenty of soap and water while removing contaminated clothing and shoes.

Ingestion: Do not induce vomiting. First rinse mouth and then give to drink plenty of water. Seek medical advice.

Inhalation: Remove from exposure to fresh air immediately.

Notes to physician: Treat symptomatically and supportively.

SECTION 5: Fire and explosion hazard data

Extinguishing media: Dry chemical, chemical foam, or alcohol-resistant foam.

Protective equipment: Self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Autoignition

Temperature: Not available.



Flash point: Not available.

Explosion limits, lower: Not available.

Upper: Not available.

Further information: NFPA rating not published.

SECTION 6: Spill or leak procedures

Personnel precautions: Use proper personal protective equipment as indicated in section 8.

Environmental precautions: None

Methods for cleaning up: Sweep up, then place into a suitable container for disposal. Clean up spills, observing precaution in the protective equipment section.

SECTION 7: Handling and storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid ingestion and inhalation. Avoid contact with eyes and skin.

Storage: Store in a cool, dry place protected from light. Keep container close when not in use.

SECTION 8: Exposure controls, personal protection

Exposure limits:

ACGIH: None listed

NIOSH: None listed

OSHA – FINAL PELs: None listed

OSHA Vacated PELs: None listed

Personal protective equipment:

Eyes: Safety glasses and chemical goggles. Splashing is possible.

Skin: Appropriate protective gloves and clothing.

SECTION 9: Physical and chemical properties

Physical state: Crystalline powder

Appearance: Pale yellow needles

Odor: None

Ph: Not available

Vapor pressure: Not available

Vapor density: Not available



Evaporation rate: Not available

Viscosity: Not available

Boiling point: Not available

Melting point: 195.0-197.0 deg. C

Decomposition temperature: 214.0-215.0 deg. C

Solubility: Pyridine; formamide; alkaline solutions

Specific gravity/density: Not available.

Molecular formula: $C_{27}H_{30}O_{16} \cdot 3H_2O$

Molecular weight: 664.58

SECTION 10: Stability and reactivity

Stability: Stable.

Conditions to avoid: Incompatible materials, strong oxidants.

Incompatibilities with other materials: Acids-heavy metal salts.

Hazardous decomposition products: Carbon monoxide, carbon dioxide, irritating and toxic fumes and gases.

Hazardous polymerization: Has not been reported.

SECTION 11: Toxicological information

RTECS#: VM2975000

CAS#: 153-18-4

LD50/LC50: I.V. in mice: 950 mg/ kg

Carcinogenicity: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

SECTION 12: Ecological information

Ecotoxicity: Not available.

Behavior and environmental fate: Not available

SECTION 13: Transport information

US DOT: No information available

IMO: Not regulated as a hazardous material.

IATA: Not regulated as a hazardous material.

RID/ADR: Not regulated as a hazardous material.

Canadian TDG: No information available.

SECTION 14: Disposal considerations

IATA: Not regulated as a hazardous material.

IMO: Not regulated as a hazardous material.

RID/ADR: Not regulated as a hazardous material.

SECTION 15: Regulatory information

US Federal TSCA

CAS# 153-18-4 is listed on the TSCA Inventory. Health & Safety Reporting List

None of the chemicals in this product are on the Health & Safety Reporting List.

Chemical test rule

None of the chemicals in this product are under Chemical Test Rule. Section 12b

None of the chemicals are listed under TSCA Section 12b. TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA. SARA

Section 302 (RQ):

None of the chemicals in this material have an RQ. Section 302 (TPQ)

None of the chemicals in this product have a TPQ. Section 313

No chemical is reportable under section 313.

Clean Air Act

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

Clean water Act

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants Under the CWA.

OSHA None of the chemicals in this product are considered highly hazardous by OSHA.

STATE



Rutin is not present on state lists from CA, PA, MN, MA, FL, or NJ. California No Significant Risk Level

None of the chemicals in this product are listed. European/International Regulations

European Labeling in accordance with EC Directives Hazard Symbols: Not available.

Risk phrases: Not available

Safety phrases: S 24/25 Avoid contact with skin and eyes. WGK (Water Danger/Protection)

CAS#: 153-18-4: 1

Canada

None of the chemicals in this product are listed on the DSL/NDSL list. CAS# 153-18-4: is not listed on Canada's Ingredient Disclosure List.

SECTION 16: Additional information

The information contained in this document is based on the present state of our knowledge. However, we give no warranty for completeness. We would like to point out that this data sheet is intended to be a guide for users but not an ultimate manual. Users should make their own investigation to determine the suitability of the provided information for their particular purposes. In any case the user has to consider current laws and regulations. In no way Fingres Biotech Inc. shall be liable for any claims, losses or damages of any third party caused by the use of information given in this material safety data sheet.

Department issuing MSDS: Fingres Biotech Inc.