

# Spirulina Feed

## Technical Data Sheet





# Product Description

API Premium Spirulina Feed is a high-performance, fully soluble nutrient formulation engineered to support superior growth, biomass yield, and phycocyanin productivity in commercial spirulina cultivation systems. Suitable for raceway ponds, tubular photobioreactors, vertical panels, and controlled laboratory environments, this balanced mix supplies the essential macro- and micronutrients required for robust and consistent spirulina culture performance.

Produced using high-purity ingredients under strict quality controls, API Premium Spirulina Feed ensures exceptional solubility, stability, and culture compatibility. The formulation reduces contamination risk, supports healthy physiological function, and enables reliable scale-up from research to industrial production.

The blend contains no sodium chloride or sodium bicarbonate, allowing operators to customise salinity and alkalinity precisely for their strain and process. For optimum performance, API recommends supplementing cultures with 1 g/L sodium chloride and 16.7 g/L sodium bicarbonate, depending on spirulina strain requirements and growth conditions.

Designed for cost-effective, high-intensity spirulina cultivation, API Premium Spirulina Feed provides an efficient, convenient foundation for producing premium-grade spirulina biomass suitable for food, nutraceutical, cosmetic, and pigment applications.





# Basic Information

|                |  |
|----------------|--|
| Product        | Premium Spirulina Feed   |
| Product Code   | PSF-F1   |
| Product Brand  | Algae Products International   |
| Composition    | Nitrates, phosphates, and trace elements for spirulina growth  |
| Grade          | Feed grade   |
| Appearance     | White powder   |
| Odour          | Neutral  |
| Solubility     | Soluble in water   |
| Manufacturer   | Algae Products International Limited<br>Vale Refinery, Ynyspenllwch Road Swansea SA6 5QR<br>United Kingdom |
| Origin Country | United Kingdom   |
| CAS No.        | 20298-86-6   |
| HS Code        | 12122990   |



# Supplier Details

|                  |  |
|------------------|--|
| Supplier Name    | Algae Products International Limited                               |
| Address          | Vale Refinery, Ynyspenllwch Road Swansea SA6 5QR<br>United Kingdom |
| Telephone Number | +44 (0)1792 000 001  |
| Email            | sales@algae-products.com   |
| Website          | www.algae-products.com   |

# Site of Manufacture

|                  |  |
|------------------|--|
| Supplier Name    | Algae Products International Limited                               |
| Address          | Vale Refinery, Ynyspenllwch Road Swansea SA6 5QR<br>United Kingdom |
| Telephone Number | +44 (0)1792 000 001  |
| Email            | sales@algae-products.com   |
| Website          | www.algae-products.com   |



# Third Party Certification

| Standard      | Certifying Body            | Date of Registration |
|---------------|----------------------------|----------------------|
| ISO 9001:2015 | Citation ISO certification | Annually             |
| ISO14002:2015 | Citation ISO certification | Annually             |

## Contact Details

|                  | Name         | E-Mail                    |
|------------------|--------------|---------------------------|
| <b>Technical</b> | Jack Wade    | jack@algae-products.com   |
| <b>Sales</b>     | Ferhan Rasul | ferhan@algae-products.com |
| <b>Quality</b>   | Adnan        | adnan@algae-products.com  |

## Material Composition

| Component   | Function     | Country of origin |
|---|--------------|-------------------|
| Macro nutrients (e.g., nitrogen form, phosphates, sulphates, magnesium, potassium)<br>Trace metals (iron, zinc, copper, cobalt, boron, manganese) | Raw Material | United Kingdom    |



# Nutrient Composition

| Nutrients | Percentage % |
|-----------|--------------|
| N         | 7.9          |
| P         | 2            |
| K         | 37.5         |
| S         | 4.83         |
| Cl        | 0.6          |
| Mg        | 0.45         |
| Ca        | 0.33         |
| Na        | 0.23         |
| Fe        | 0.0459       |
| Mn        | 0.0115       |
| B         | 0.0114       |
| Mo        | 0.0035       |
| Zn        | 0.00142      |
| Cu        | 0.000459     |



# Directions For Use

## Preparing stock solution

Example:

- Dissolve 1 kg API Spirulina Feed in 10 L water
- Ensure complete dissolution before adding to culture

## Recommended dosage

- 0.1–5.0 g/L depending on production intensity
- For 1× Zarrouk-equivalent nutrient level: 5 g/L
- Adjust based on nutrient demand, strain behaviour, and productivity goals

## Sodium supplements recommended

- Add 1 g/L sodium chloride
- Add 16.7 g/L sodium bicarbonate

# Shelf Life and Storage Conditions

|                     |  |
|---------------------|--|
| Storage temperature | Room temperature   |
| Storage conditions  | Store in a cool, dry place, away from direct sunlight and moisture |
| Shelf life          | 2 years from manufacturing date under recommended storage          |



# Additional Information

This Technical Data Sheet (TDS) has been prepared and issued by Algae Products International Ltd to provide detailed information about the product Premium Spirulina feed – PSF-F1 . The data presented herein is based on analytical results, internal specifications, and best practices as observed under controlled production and testing environments.

- All product batches are manufactured under strict hygienic conditions and subjected to rigorous quality control procedures.
- This product is traceable through its batch number and production date, ensuring complete transparency and compliance with food safety standards.
- Algae Products International is committed to continuous product improvement and adheres to relevant international food safety regulations and guidelines.
- For technical support, custom documentation, or regulatory assistance, please contact us directly at [sales@algae-products.com](mailto:sales@algae-products.com).