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MACRO ELEMENT WATER SOLUBLE FERTILIZER

# 4-18-38 Water soluble fertilizer

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| **Document reference** | TDS-4-18-38-WATER-SOLUBLE-FERTILIZER |
| **Issue date** | 11 August 2026 |
| **Revision** | 1.3 |
| **Supersedes** | Rev 1.2, 11 August 2026 |

## 1. Product Description

4-18-38 Water soluble fertilizer is potassium-led, favouring fruit fill, quality and stress tolerance; with potassium held high to firm up tissue and improve keeping quality. The analysis supplies 4% nitrogen, 18% phosphorus (as P2O5) and 38% potassium (as K2O). Best applied from flowering through fruit fill - horticulture, tubers, cane and fruiting crops where potassium governs size, sugar and shelf life. It dissolves fully for fertigation and foliar programs, making it suitable for drip, pivot and boom delivery without residue. Natures Fertilizer is an Australian blender and distributor - this analysis is blended locally and available in bulk or bagged quantities.

## 2. Declared Analysis and Specification

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|---|---|
| **Product name** | 4-18-38 Water soluble fertilizer |
| **Product code** | 4-18-38-WATER-SOLUBLE-FERTILIZER |
| **Product family** | Macro Element Water soluble fertilizer |
| **Declared analysis (N–P–K)** | **4–18–38** |
| **Total nitrogen (N)** | 4% |
| **Phosphorus (as $P_2O_5$)** | 18% |
| **Potassium (as $K_2O$)** | 38% |
| **Total nutrient content** | 60% (60 units) |
| **Elemental phosphorus (P)** | 7.9% |
| **Elemental potassium (K)** | 31.5% |
| **Nutrient supplied per tonne** | 40 kg N · 180 kg $P_2O_5$ · 380 kg $K_2O$ |
| **Physical form** | Soluble crystal / powder |
| **Water solubility** | Fully water soluble |
| **Packaging** | Bulk, one-tonne bulka bag or bagged — confirmed on your quotation |
| **Minimum order** | **10 – 25 MT**, depending on the product and the destination — confirmed on your quotation |
| **Availability** | Australia-wide delivery; international shipping on request |
| **Certificate of Analysis** | Issued on request against your delivered batch |
| **Safety Data Sheet** | Available on request — request it before handling |

## 3. Nutrient Loading

One tonne of 4-18-38 Water soluble fertilizer supplies **40 kg of nitrogen (N)**, **180 kg of phosphate ($P_2O_5$)** and **380 kg of potash ($K_2O$)**. Total nutrient content is 60 units per 100 kg.

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| Rate applied | N supplied | P2O5 supplied | K2O supplied |
|---|---|---|---|
| 50 kg/ha | 2 kg/ha | 9 kg/ha | 19 kg/ha |
| 100 kg/ha | 4 kg/ha | 18 kg/ha | 38 kg/ha |
| 150 kg/ha | 6 kg/ha | 27 kg/ha | 57 kg/ha |
| 200 kg/ha | 8 kg/ha | 36 kg/ha | 76 kg/ha |
| 250 kg/ha | 10 kg/ha | 45 kg/ha | 95 kg/ha |

Indicative conversion only. Application rates must be set against a current soil test and confirmed with a qualified agronomist.

## 4. Typical Application

**Quality, fill and finishing**

Potassium leads this analysis, making it a finishing and quality product rather than a growth-push product. Typical use is the reproductive phase — fruit fill, tuber bulking, grain fill — and in crops where potassium removal at harvest is high.

Fully water-soluble, formulated for fertigation, injection and foliar programs.

## 5. Packing and Quantities

| Format | Net weight | Typically used for |
|---|---|---|
| 25 kg bag | 25 kg | Small holdings, trial quantities, hand or small spreader application |
| 50 kg bag | 50 kg | Standard bagged supply for general farm and horticultural use |
| 500 kg bulka bag (FIBC) | 500 kg | Loader or telehandler handling where a full tonne is too much |
| 1,000 kg bulka bag (FIBC) | 1 tonne | The standard broadacre unit — one bag, one lift |
| Bulk | By the tonne | Tipped or augered into your bin or spreader; lowest cost per tonne |

Minimum order is 10 - 25 MT depending on the product and the destination. Exact packing and tonnage are confirmed on your quotation.

## 6. Container Loading (20ft FCL)

| Packing | Loading method | Units per 20ft | Net weight |
|---|---|---|---|
| 25 kg bags | Floor loaded (loose stacked) | 1,000 bags | 25 MT |
| 25 kg bags | Palletised, 40 bags per pallet, shrink-wrapped | 20 pallets / 800 bags | 20 MT |
| 50 kg bags | Floor loaded (loose stacked) | 500 bags | 25 MT |
| 50 kg bags | Palletised, 20 bags per pallet, shrink-wrapped | 20 pallets / 400 bags | 20 MT |
| 500 kg bulka bags | Floor loaded, two tiers | 40 – 50 bags | 20 – 25 MT |
| 1,000 kg bulka bags | Floor loaded, single tier | 20 – 25 bags | 20 – 25 MT |
| Bulk | Loaded into a container liner bag | — | 25 – 27 MT |

Fertiliser is a dense cargo: a 20ft container reaches its weight limit at roughly 25-27 tonnes while still only part full, so a 40ft box offers no usable gain. Shipping in 20ft containers is standard and is normally the cheaper freight per tonne.

## 7. Handling and Storage

Store dry, off the ground and out of direct weather. Nitrogen and ammonium-based fertilisers are hygroscopic: they draw moisture from the air and will cake or set hard if left exposed. Keep bags closed until use, rotate stock, and do not stack beyond the height the packaging is rated for. Avoid contamination with other chemicals.

**Request the Safety Data Sheet for this product before it is handled.** The SDS covers hazard classification, personal protective equipment, first aid and spill response, and it must be accessible to everyone who handles, transports or stores the product.

## 8. Supply and Documentation

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|---|---|
| **Minimum order** | 10 - 25 MT, depending on product and destination |
| **Delivery** | Australia-wide - every state and territory |
| **Export** | International shipping worldwide, quoted per container |
| **Certificate of Analysis** | Issued on request against your delivered batch |
| **Safety Data Sheet** | Available on request |
| **How to order** | Enquiry and written quotation only - no online ordering or payment |
| **Payment** | Bank transfer only - EFT within Australia, T/T (telegraphic transfer) for export. Terms are stated on your quotation. |
| **Bank details** | Issued on our invoice only. We never change account details by email alone - verify by phone before transferring funds. |
| **Enquiries** | info@naturesfertilizerptyltd.com \| 0420 129 507 |

**Disclaimer.** The analysis stated in this data sheet is the nominal specification for this product. It is not a guarantee of the composition of any particular consignment. Where a Certificate of Analysis is issued for a delivered batch, that certificate governs and takes precedence over this document. This data sheet is technical product information and is not agronomic advice; fertiliser selection and application rates depend on soil type, moisture, crop, rotation and season, and should be confirmed with a qualified agronomist. This document is not a Safety Data Sheet.