

Technical Data Sheet



Uplift Fish Liquid Concentrate

NPK 3 – 0.4 – 0.3

What is it?

Yates Uplift Fish Liquid Concentrate is a natural complete fertiliser. Nutrients are water-soluble and available for plant uptake through both foliage and roots. These include various natural trace elements, minerals, proteins, amino acids and vitamins that feed and rejuvenate soil. Application of Yates Uplift Fish Liquid Concentrate will complement your fertiliser program and reduce the use of inorganic acidifying fertilisers.

Specific Product Benefits:

- Sustainably-harvested natural Australian source of organic nutrients
 - Improves shoot and root growth, as well as flower development
 - Improves soil microbe and earthworm activity
 - Contains fish oils, vitamins, proteins and amino acids
 - Also contains natural minerals and trace elements
 - Foliar, soil or fertigation application
 - Suitable for all crops
 - Compatible with most agro-chemicals and nutrients
 - Product of Australia
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Pack Sizes Available 1 000L IBC

Organic certification: 1 000L IBC pack size certified for organic use by NASAA

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How it Works:

- Yates Uplift Fish provides natural organic feeding to plants and also acts as a soil conditioner by stimulating soil microbial and earthworm activity.
- Yates Uplift Fish is a hydrolysate, consuming all the waste fish, ensuring all nutrients are processed into the final liquid product.
- The organic components of the fish waste such as its protein, oil (fat) and bone are degraded to form fish hydrolysate that is rich in protein and key minerals and trace elements.
- Proteins are broken down into their peptide and amino acid components that are easier taken up by plants.
- Fish hydrolysate is very different from fish emulsions that are made from fish soluble, as these emulsions only use certain portions of the fish waste.

Additional product data:

Specific gravity 1.06
pH 3.4 – 3.8
Organic Carbon 11–13%

Typical Analysis (as organic nutrients):

	<u>(% w/v)*</u>		<u>mg/Ltr</u>
Total Nitrogen (N)	3.0%	Magnesium (Mg)	500
Total Phosphorus (P)	0.4%	Iron (Fe)	185
Total Potassium (K)	0.3%	Manganese (Mn)	250
Calcium (Ca)	0.7%	Copper (Cu)	55
Sulfur (S)	0.5%	Zinc (Zn)	50
		Boron (B)	45
		Molybdenum (Mo)	10

* As the product is made from natural sources, some batch variation may occur

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Instructions for use:

- Always dilute with water before applying.
 - Agitate well before decanting or mixing into spray tank.
 - Check physical compatibility (jar test) and also whether spray tank mixes are allowed, before making a spray tank mix with other agrochemicals.
 - Do not mix with herbicides.
 - Add Yates Uplift Fish Liquid last, when making a spray tank blend.
 - Do not store diluted product, use within 24 hours.
 - Do not apply to foliage in the heat of day or if shade temperatures exceed 30 °C.
 - Maximum dilution 1:250 & Minimum dilution 1:50
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Application Rates

Foliar application (General recommendation: Apply every 3 – 4 weeks in the growing season, until 1 week before harvest)

- **Apply at higher rate just after fruit set or grazing/cutting.**

Vegetables & turf	4 – 8 L/ha
Orchards	5 – 10 L/ha
Grapes	5 – 8 L/ha
Cereal & broadacre	2 – 5 L/ha
Pasture & oats	5 – 10 L/ha

Specific Foliar spray instructions:

ALWAYS dilute with water before application.

When making a spray tank mix, add the required water volume required for the spray system, and then add the required amount of Uplift Fish, keeping in mind minimum and maximum dilution levels.

The use of a Silvan high probe boomless nozzle kit (\$240) for Power Take-Off (PTO) or 12 volt or similar single nozzle product is recommended. Contact Silvan on Tel: 1300 745 826. Otherwise use blue coded nozzles or coarser with nozzle filters removed (if smaller than 150 micron).

Yates Australia * Commercial Division * 1 Gow Street, Padstow, NSW 2211 Australia * Commercial Sales Support: 1300 132 153

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Application Rates

Foliar application (General recommendation: Apply every 3 – 4 weeks in the growing season, until 1 week before harvest)

Soil drench application 10 – 40 L/ha Use higher rate for poor soils.

For poor soils, apply and plough in once at 40 L/ha and then reduce for subsequent applications.

Seedling application Apply at 1:250 dilution rate. The use of Uplift Seaweed Concentrate is recommended when transplanting or establishing seedlings.

Fertigation application Apply soil drench rate prior to final flush of lines at 1:100 dilution.

Specific Fertigation application instructions:

When applying the product through a fertigation system it is important to know the system volume, i.e. in irrigation pipes of the specific section to be fertigated. Then determine the required volume of Uplift Fish to ensure the recommended dilution rate. When the irrigation cycle is nearly complete, inject Uplift Fish into the lines and then flush the lines with the line volume to ensure all the mix is flushed out. Then stop the irrigation to ensure that the product is not leached away. E.g. If a section volume is 1000L, 10L Uplift Fish needs to be added. After addition of the Uplift Fish, the lines need to be washed out with at least 1000L water before stopping the irrigation cycle.

Application Precautions

Avoid contact with eyes and skin. Wear appropriate protection and wash hands after use.

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Warehouse & Transport Information

	5Ltr	20Ltr
Units per pallet	144 (2 per shipper)	40
Layer per pallet	3	2
Units per layer	48 (24S1:3H)	20 (20U1:2H)
Pallet weight	<i>max 950 kg (max height 1230mm)</i>	
Pallet height	1074mm	1038mm
Other	<i>Loscam pallet (1165mm L x 1165mm W x 150mm H); plastic stretch wrapped</i>	

Safety, Health & Environment

<u>Safety Directions</u>	Keep out of reach of children and pets. Avoid inhalation and contact with eyes and skin. Wash hands immediately after use.
<u>Storage</u>	Store in the closed, original container, in a dry, cool, well-ventilated area out of direct sunlight. Avoid exposure to excessive temperatures. Keep containers closed when not on use - check regularly for spills.
<u>Poisons Schedule</u>	No adverse health effects expected if the product is handled in accordance with the Material Safety Data Sheet and the product label. See MSDS for further details.
<u>Hazardous Substances</u>	Based on available information, not classified as a hazardous substance according to criteria of Safe Work Australia.
<u>Dangerous Goods</u>	Not classified as Dangerous Goods.
<u>Waste Disposal</u>	Refer to local government authority for disposal recommendations.
<u>Environmental Warning</u>	Avoid contaminating waterways. For further Information, consult the Material Safety Data Sheet.

For more information refer to www.yates.com.au or Yates Sales Support 1300 132 153

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Yates recommends that you contact an Agronomist prior to the application of this product and/or conduct trials of this product prior to full commercial application.