

### Description

A water-soluble bio-polymer flocculant utilised in water and wastewater treatment applications. **Vital Eco Super Floc** consists of a bio-polymer technology which through its action of ionic binding, flocculates suspended and dissolved particulate matter for removal by techniques such as settling, floatation and filtration. The product binds to particulate and dissolved substances and is removed with the sludge or settled solids.

### Recommended Applications

Suitable for use in sedimentation ponds and in various water treatment applications with efficiency across a broad range of soil and sediment types.

### Features

- Advanced pH stability;
- Readily bio-degradable – natural bio-polymer technology;
- Not bio-accumulative;
- No PAC;
- No heavy metals;
- No harsh chemicals;
- Economical – with single step, low dosage rates.

### Specifications

Appearance	CLEAR TO LIGHT YELLOW	Solubility (water)	SOLUBLE
Odour	SLIGHT ODOUR	Vapour pressure	NOT AVAILABLE
Flammability	NON FLAMMABLE	Upper explosion limit	NOT AVAILABLE
Flash point	NOT RELEVANT	Lower explosion limit	NOT AVAILABLE
Boiling point	100°C (Approximately)	Partition coefficient	NOT AVAILABLE
Melting point	0°C (Approximately)	Autoignition temperature	NOT AVAILABLE
Evaporation rate	NOT AVAILABLE	Decomposition temperature	NOT AVAILABLE
pH	3 – 5	Viscosity	NOT AVAILABLE
Vapour density	NOT AVAILABLE	Explosive properties	NOT AVAILABLE
Specific gravity	1 (Approximately)	Oxidising properties	NOT AVAILABLE
		Odour threshold	NOT AVAILABLE

### Application Directions

**Vital Eco Super Floc** is applied via dedicated dosing systems, top entry and other typical flocculant dosing methods.

**Vital Eco Super Floc** requires receiving water pH readings to be approximately 6 to 8 for optimum product performance.

### Dosage Rates

Due to numerous variables and to prevent over dosage in water treatment applications, bench testing must be undertaken to determine the optimal dosage rate for each application.

A generalized dosage rate when applied to un-treated water is typically between 10 and 100 ppm.

### Shelf Life

Shelf life is approximately 12 months when stored in accordance with the storage requirements listed on the Product Data Sheet.

Pre-diluted product should be used within 7 days as the shelf life may reduce once contaminants are introduced.

### **Storage**

**Vital Eco Super Floc** should be stored at a temperature of min. 5°C to max. 45°C.

**Vital Eco Super Floc** must be kept in closed drums/containers/tanks out of direct sunlight. Containers must be closed tightly to avoid contact with air, which can contribute to product contamination.

Exposure to UV light and increased temperatures may reduce the shelf life or cause discoloration of this product - discoloration may not affect product efficacy. If discoloration occurs, bench testing must be undertaken to determine product efficacy.

**Do not keep pre-diluted product for longer than 7 days** as the shelf life may reduce once contaminants are introduced.

### **Packaging**

**Vital Eco Super Floc** is supplied in 20L drums and 1,000L IBCs.

### **Precautions**

**Vital Eco Super Floc** contains no hazardous substances requiring labelling. For more information, refer to the Safety Data Sheet.

Care should be taken to prevent **Vital Eco Super Floc** being overdosed in water treatment applications and concentrated **Vital Eco Super Floc** prevented from entering waterways and water systems. When applied correctly, little product should remain in the treated water discharged to the environment. It is the responsibility of the Principal Contractor to ensure that all pre-release jar / bench water testing is carried out on site water prior to any release to waterways.

For any further product or application advice or instruction, contact Vital Chemical Pty Ltd.

Contractors must undertake appropriate risk assessments to ensure the safe delivery of the product to the application area.

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## STATEMENT OF RESPONSIBILITY

The technical information and application advice given in the **Vital Chemical Pty Ltd** publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

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## NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by **Vital Chemical Pty Ltd** either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not **Vital Chemical Pty Ltd**, are responsible for carrying out procedures appropriate to a specific application.

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