

# TECHNICAL BULLETIN



19 Motivation Dve Wangara, WA, 6065 AUSTRALIA  
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Date of Issue: 4/4/2016

Last revision: February 2016

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## PACFLOC 20, 30, 40% AND 1.32

### PACFLOC 40

Contains 490 g/L Polyaluminium Chloride

#### WARNING

**Causes skin irritation**

**Causes serious eye irritation**

**May cause respiratory irritation**

Wash with water thoroughly after handling. Wear protective gloves.

IF ON SKIN: Wash with plenty of soap and water.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

Call a POISON CENTER or doctor/physician if you feel unwell.

Store in a well-ventilated place. Keep container tightly closed.

BATCH NO. 17078



1 7 5 0 0 1 3 1



#### Flocculating agent for use in water treatment

**DIRECTIONS FOR USE:** Dose PACFLOC into the water stream at the required dilution. pH adjustment may also be required depending on water source. After initial mixing, allow the treated water to stand without agitation. Syphon off clear supernatant liquid as required. Consult the Technical Bulletin for this product.

**APPLICATION RATE:** The dilution rate required is best determined through testing of the water stream. A typical concentration would be 0.5 mL per litre.



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## MATERIAL & FUNCTION

**PACFLOC** is a slightly acidic source of aluminium used (with soda ash) as a flocculating agent for the clarification of bore water.

**PACFLOC** does not flocculate until the pH of the water has been returned to 7. This is

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commonly achieved with **SODA ASH** (Sodium Carbonate) or Pool Buffer (Sodium Bicarbonate). The flocculant gradually settles to the bottom (2-12 h), depending on the amounts used and the volume of water. The flocculant is removed by either filtration or vacuuming to waste.

**PACFLOC** is particularly effective with iron contamination in bore water. The light green colour of the bore water commonly indicates ferrous ion which, on exposure to air, turns brown as the ferrous ion is converted to ferric ion. The brown staining on walls etc. is usually due to iron staining. Suspended solids in the water are dramatically reduced during flocculation.

## APPLICATION

**Typical Application Rates** vary depending on the degree of contamination. The important point is that the ratio of **PACFLOC** and **SODA ASH** be kept constant at about 0.3 : 1.0 to ensure the pH remains about 7. If the pH is critical, then the water should be tested on a small scale first.

Volume of water	PACFLOC20	Soda Ash
L	L	kg
1000	3.6	0.55
50 000	175	23
100 000	355	55

Up to 10 times the level of **PACFLOC20** and **SODA ASH** listed above may be required for strongly coloured water.

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## 1. Addition of PACFLOC

Add **PACFLOC** to water and allow to dissolve. The pH of the water will drop to about 4.0 but no change will be observed visually.

## 2. Addition of Soda Ash

Add **SODA ASH** portion wise until the pH returns to 7 (check with pH indicator paper or pool pH testing kit. Premixing of the soda ash in a bucket of water before adding is recommended. The water will change to a cloudy white appearance.

## 3. Settling and disposal

Allow the cloudy colour to settle over 2 to 12 hours (or longer if very large volumes involved. The flocculant can then be vacuumed through to waste or filtered and used. Backwashing of the filter will be required occasionally.

## STORAGE

**PACFLOC** may be stored for at least 12 months. **PACFLOC** should be stored in lined drums. **PACFLOC** is slightly acidic and will corrode metal.

## PACKAGING

5 Litre, 15 Litre, 200 Litre & 1000 Litre drums

## IMPORTANT NOTICE TO CUSTOMER

*Since the use of this product is beyond the control of either seller or manufacturer, their only obligation shall be to replace any quantity of product which is proven defective.*

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*They cannot assume any risk or liability in excess of the purchase price of the product itself, which does not include labour or any consequential damages resulting from the use of this product. Determining the suitability of this product for any intended use shall be solely the responsibility of the user. **ALWAYS TEST FIRST.***