



## TECHNICAL DATA SHEET

### TO WHSA

A new generation soda substitute for dyeing with reactive dyestuffs that takes care of water hardness too.

#### ADVANTAGES:

- Better reproducibility of the dyeing by improved pH control.
- Far better dye yield.
- Reduced formation of hydrolysate.
- Avoidance of unevenness by an even absorption and fixation of dyestuffs.
- Easy shading in case of vinyl sulphone dyestuffs in particular because of necessity to lower pH value and the dyeing temperature can be managed.
- All in one operation is possible, so special dosing is not necessary.
- Can be readily washed off since it is free of silicate.
- APEO / NPEO free.
- Free of foaming.
- Not hygroscopic i.e. no change of product activity.

#### PROPERTIES :

**Appearance** : Clear colorless liquid  
**Base** : Inorganic buffer mixture  
**Solubility** : Readily soluble with cold & warm water  
**pH** : 13.0 (10% Soln.) {(+/-) 0.5}

#### APPLICATION:

**TO WHSA is applied in dyeing of highly reactive and medium reactive dyestuff by exhaust method.**

<b>Highly Reactive Dyestuffs</b>	<b>Dyeing @ 40-45 Deg C</b>
<b>Medium Reactive Dyestuffs</b>	<b>Dyeing @ 50-60 Deg C</b>

#### Guidelines for Application:- TO WHSA (in ml / l)

<b>For Light Shades</b>	<b>Dosage @ 1/10<sup>th</sup> of Soda Ash</b>
<b>For Medium Shades</b>	<b>Dosage @ 1/10<sup>th</sup> to 1/8<sup>th</sup> of Soda Ash</b>
<b>For Darker Shades</b>	<b>Dosage @ 1/5<sup>th</sup> to 1/7<sup>th</sup> of Soda Ash</b>



#### **TFT BIOTECH INDIA PVT LTD**

AP-297, 30th street, Kambar Colony, Anna Nagar West, Chennai-600040,  
Tamilnadu, India

Ph- 91-44-26182557 / 26186079 Fax-91-44-26181364

Email: info@tftindia.com



The above dosages are indicative. Actual dosages may need to be finalized depending upon the result desired.

The following pH values must be reached:-

<u>Type of Dyestuffs</u>	<u>Final pH Value</u>
Highly Reactive Dyestuff	10.5
Medium Reactive Dyestuff	11.2
Black Brands	11.5



#### HANDLING & SAFETY:

**Storage** : To be kept away from direct exposure to sunlight  
**Safety** : Refer MSDS  
**Packing** : 50 Kg HDPE Carboys  
**Shelf Life** : Twelve Months from the date of manufacture

\*

*\* All information quoted above is based on our experience and actual know-how, but is given without guarantee and obligation. Recommendations on the applications and use of our products should be adapted to the particular user's conditions and other materials employed. . Users are responsible for certification of use of their product and for complying with local legislation. Suggestions of use shall not be taken as inducements to infringe any patents or grant any license under a valid patent and are provided for illustrative purposes only.*

#### **TFT BIOTECH INDIA PVT LTD**

AP-297, 30th street, Kambar Colony, Anna Nagar West, Chennai-600040,  
Tamilnadu, India

Ph- 91-44-26182557 / 26186079 Fax-91-44-26181364

Email: info@tftindia.com