



# TECHNICAL BULLETIN

## Tailight® FN-T liquid

Tailight® FN-T liquid is an UV absorber with Eco type which is specially suitable for the application on CDP, Polyester and CDP/PES blended fibers. It can increase the light fastness of dyed fabrics.

### I、PROPERTIES

- |                      |   |  |
|----------------------|---|--|
| 1. Appearance        | : | White aqueous dispersion with low viscosity.   |
| 2. Ionic character   | : | Anionic.   |
| 3. pH Value          | : | 6 – 7 (5% sol.)  |
| 4. Composition       | : | Benzotriazole derivatives.   |
| 5. Dilutability      | : | Dilutable in cold and warm water.  |
| 6. Storage stability | : | Over one-year stability in 20°C sealed container.  |
| 7. Toxicity / ECO    | : | The storage, application and operation should comply with the general safety regulations related to the chemical transportation. |

### II、ADVANTAGES

1. **Tailight® FN-T liquid** is an UV absorber with Eco type which is specially suitable for carpet, automotive, textile, and furniture by CDP, Polyester, and its blends. It can increase the light fastness of dyed fiber between 1 - 2 grade, depends on the dyes type, dyeing depth and fiber property. All the data are certified by credible institutions.
2. **Tailight® FN-T liquid** is especially suitable for exhaustion process. It exhausts rapidly and completely on all CDP, Polyester/CDP fibers and its blends in one-bath dyeing without side effects, such as tarring.
3. **Tailight® FN-T liquid** has very stable effect in H.T. Dyeing process. Its particle has been micronized, so it is very suitable for Cheese/Cone or Piece dyeing process.
4. In using **Tailight® FN-T liquid**, Reduction Clearing process is necessary after completing the dyeing process.

**T&T INDUSTRIES CORP.**

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5. Tailight® FN-T liquid is suggested to use under lower temperature and quick process due to its property of shade-change while heat setting above 180 °C .

### III、 Recommended Recipes and Process :

#### 1. Exhaustion Process:

a. Polyester fiber :	X%	Taicron Dyes	
	0.3 g/l	Taigal AF-60	130°C x 30~50 min
	1.0~3.0%	Tailight® FN-T liquid	
	PH 4	Dyeacid HP	
b. 100%CDP fiber :	X%	Taiacryl AD Dyes	
	1.0~2.0 g/l	Taigal CDP	
	0.3 g/l	Na <sub>2</sub> SO <sub>4</sub>	120°C x 30~50 min
	1.0~3.0%	Tailight® FN-T liquid	
	PH 4	Dyeacid HP	
c. CDP/PES blended fiber :	X%	Taicron Dyes	
	0.3 g/l	Taigal AF-60	
	1.0~2.0 g/l	Taigal CDP	120°C x 30~50 min
	1.0~3.0%	Tailight® FN-T liquid	
	Y%	Taiacryl AD Dyes	
	0.3 g/l	Na <sub>2</sub> SO <sub>4</sub>	
	PH 4	Dyeacid HP	

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### 2. Continuous Dyeing Process :

X g/l	Taicron Dyes
0.3~1.0 g/l	Taigal AF-60
10~30g/l	Tailight® FN-T liquid
PH 4	Dyeacid HP

### 3. Printing Process :

\* Suggested recipes :

X g/l	Thickener
Y g/l	Taicron Dyes
3.0~10 g/l	Taigal AF-60
10~30 g/l	Tailight® FN-T liquid
<u>Z g/l</u>	water
1,000 grams	

Cold washing → 40°C hot washing 1.0 g/l Scourner S-300

1 g/l Scourner S-300 + 2~3 g/l Na<sub>2</sub>CO<sub>3</sub> + 2 g/l Na<sub>2</sub>SO<sub>4</sub> 60~70°C ----- Reduction clearing

Cold washing neutralized dry 110°C → steaming fixation under 180°C .

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