

## SARABID OL

<b>Character</b>	Universally applicable dyeing & bleaching auxiliary
<b>Chemical Character</b>	Special alkyl polyglycol ether
<b>Appearance</b>	Colourless, low viscosity liquid
<b>Ionic Character</b>	Non-ionic
<b>pH Value</b>	5.8 – 8.2
<b>Specific Weight at 20 °C</b>	1.04
<b>Stabilities</b>	<p>SARABID OL is stable to hard water, acids, alkalis and metallic salts.</p> <p>The product is sensitive to frost to a certain extent; changes occurring at low temperatures disappear on warming and after thorough stirring.</p>
<b>Storage</b>	On proper storage in closed original containers, the product is stable for at least 12 months.

The above given values are product describing data. Please consult the 'delivery specification' for binding product specifications. Further data about product properties, toxicological, ecological data as well as data relevant to safety can be found in the safety data sheet.

### Properties

SARABID OL has excellent dispersing properties towards dyestuffs which are hard to dissolve and towards all types of pigments.

SARABID OL has washing and emulsifying properties during bleaching with some wetting capacity. When used for bleaching leads to excellent results for residual detergency on the cotton fibres.

SARABID OL has levelling properties towards anionic dyestuffs. Loose addition compounds are being formed which are split again during the dyeing process. The dyestuff retention is low, which results in a good colour yield.

SARABID OL has a levelling and dispersing power and a certain wetting power.

SARABID OL tends only to low foaming.

### Application Technique

#### Diluting Instructions

SARABID OL can be easily dissolved in cold and warm water.

## Application Fields

The most important application fields of SARABID OL are:

- dispersing agent for dyeing PAN with basic dyestuffs
- dispersing and levelling agent when dyeing blends of polyacrylonitrile fibres with cotton or wool and generally in multi-colour dyeing when cationic and anionic dyestuffs are used together
- we recommend pretrials when using disperse dyestuffs because the dispersion stability of some dyestuffs can be impaired through the use of SARABID OL
- one-bath bulking and removal of preparations of high bulk PAN yarns
- levelling agent for dyeing wool with 1 : 1 metal complex dyestuffs; auxiliary to improve the fastnesses to rubbing
- dyeing of half-wool
- degreasing of textile goods in an acid dyebath
- bleaching & pretreatment of medical cotton flocks

## Recommendation for Use

### Dispersing and levelling agent when dyeing PAN with basic dyestuffs

Being a non-ionic, surface-active dispersing agent SARABID OL prevents basic dyestuffs from depositing on the dyeing machines.

SARABID OL can also be applied in combination with cationic retarding or migration agents. The usual application amount is

0.5 - 2.0 g/l SARABID OL.

### Dispersing and levelling agent when dyeing blends of polyacrylonitrile fibres with cotton or wool

When dyeing blends of polyacrylonitrile fibres with cotton or wool, dyestuff deposits on the machines can also be frequently observed. These may either be caused by the basic dyestuff or by precipitations due to the different ionic characters of the cationic and anionic dyestuffs. To avoid deposits

0.5 - 2.0 g/l SARABID OL

are added to the liquor. SARABID OL has not only a dispersing effect but also a levelling effect on the anionic dyestuffs in use. It improves the fastnesses to rubbing and prevents bronzing.

The same applies to multi-colour dyeing (e.g. differential dyeing of polyamide, non-dyeing/normal) when cationic dyestuffs are applied together with anionic dyestuffs. With SARABID OL very good contrasts are achieved.

### One-bath bulking and removal of soilings on high bulk yarns of polyacrylonitrile fibres

Feed the boiling bath with

1.0 - 2.0 ml/l acetic acid 30 %  
0.5 - 1.0 g/l SARABID OL,

mix well and then turn off heating and liquor circulation. Slowly feed the material carrier with the dry material. Let dwell in the standing bath for 10 - 20 min and then treat for another 10 min with circulating liquor. Cool down very slowly with an inflow of water, maximum 1 °C/min, at the beginning 0.5 °C/min, preferably 1 °C/2 min. Then rinse thoroughly.

#### Dyeing of wool with 1 : 1 metal complex dyestuffs

The levelling power of 1 : 1 metal complex dyestuffs increases with a declining pH value. The most favourable pH range is approx. between pH 1.9 and 2.1. Large amounts of sulphuric acid are required (8.0 % and more) which are to be reduced in order to protect the fibre. SARABID OL is very suitable for this purpose.

With the addition of

2.0 - 4.0 % SARABID OL

the amount of sulphuric acid is calculated as follows:

4.0 % sulphuric acid 96 % o.w.f.  
+ 0.4 - 0.5 g sulphuric acid 96 % per litre of dyeing liquor

This amount is equivalent to a pH value of approx. 2.4. After dyeing a thorough rinsing usually follows, then a neutralization with 5.0 % sodium acetate and another rinsing process.

Particularly with pale dyeings, the combination of SARABID OL and SARABID DLO Conc. which has a stronger dyestuff affinity at a ratio of 3 : 1 to 1 : 2, depending on the desired retarding effect, has proven well. The product does not only improve the levelness but also various fastnesses, namely the fastness to rubbing and to perspiration.

#### Dyeing of half-wool

SARABID OL acts as protective colloid if direct dyestuffs which are sensitive to lime are applied. Flocculations are avoided, which improves the levelness and the fastness to rubbing.

Application amount:

1.0 - 3.0 % SARABID OL o.w.f.

#### Degreasing of the textile goods in an acid dyebath

This processing method is mainly applied when dyeing wool waste on package machines. Add

2.0 - 5.0 % SARABID OL and  
1.0 ml/l acetic acid 60 %

to the well circulating liquor and treat for 30 min at 70 - 80 °C. Rinse very oily goods in the overflow to remove the majority of the detached fatty substances. With a lower fat content, cool down to 50 °C with fresh water in order to set the initial temperature required for acid dyestuffs.

SARABID OL is also suited for **stripping** and **degreasing** dyed reclaimed wool. No special pre-wetting is necessary as SARABID OL wets the goods very quickly.

Stock solution:

0.5 - 2.0 % formic acid 85 %  
1.0 - 3.0 % SARABID OL  
2.0 - 4.0 % stripping agent (based on formaldehyde sulphonylate)

SARABID OL is not restricted to being applied in acid liquors since it also removes soilings in neutral and slightly alkaline baths.

#### Bleaching of medical cotton flocks

Recipe example for a discontinuous peroxide bleach

0.5 - 1.0 g/l CONTAVAN BS / GAL  
0.5 - 1.5 g/l SARABID OL  
1.0 - 2.0 g/l NaOH 100 %  
1.5 - 10.0 g/l H<sub>2</sub>O<sub>2</sub> 50 %

Liquor ratio: 1 : 2 - 1 : 6  
Treatment temperature: 95 °C  
Treatment time: 30 - 45 min  
Hot & cold rinsing

Also scouring or demineralization can be done as pre-cleaning step according to the cotton quality

Recipe example for demineralization

1.0 - 3.0 g/l HEPTOL EMG  
1.0 - 3.0 g/l SARABID OL  
Liquor ratio: 1 : 2 - 1 : 6  
Treatment temperature: 40 - 60 °C  
Treatment time: 10 - 30 min  
Rinse

Recipe example for scouring

0.5 - 1.5 g/l SARABID OL  
5.0 - 10.0 g/l NaOH 100 %  
Liquor ratio: 1 : 2 - 1 : 6  
Treatment temperature: 95 - 110 °C  
Treatment time: 20 - 45 min  
Hot & cold rinsing

**We reserve the right to modify the product and technical leaflet.**

**Our department for applied technique is always at your service for further information and advice.**

Our technical advice and recommendations given verbally, in writing or by trials are believed to be correct. They are neither binding with regard to possible rights of third parties nor do they exempt you from your task of examining the suitability of our products for the intended use. We cannot accept any responsibility for application and processing methods which are beyond our control.

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