

H&I Chemicals Ltd

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TECHNICAL DATA SHEET

SKAYWHIT HCE LIQ.

DESCRIPTION: Stilbene derivative fluorescent whitening agent with a neutral to bluish cast for cellulosic fibres, polyamide, wool, silk and their blends. For application at all stages of wet processing.

CHARACTERISTICS:

High affinity product, highly suitable for exhaust application, excellent wash fastness even at high temp. Very high bath exhaustion.

Excellent build up. Brilliant whiteness in both exhaust and continuous process.

Good stability to alkalis, peroxide and electrolytes.

Excellent stability to reducing agents.

Appearance: yellowish brown liquid

Ionic character: anionic

STABILITY:

pH 7 – 12

Hard water: up to 20° German hardness

Electrolytes: very good

Peroxide bleach: very good

Reductive bleach: very good

Chlorite bleach not stable

Chlorine bleach moderate

Alkali very good

Acid not stable

FASTNESS PROPERTIES

		CEL	PA	WO, S
Light		3-4	3	2
Washing	at 40°C	5	5	5
	at 60°C	5	5	
	at 95°C	4-5	4-5	
Chlorine bleach	mild	4-5		
	Severe	4		
Chlorite bleach	mild	1	1	
Alkali		5		
Acid		2	4	4
Perspiration	alkaline	5	4-5	4

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	acid	5	4-5	4
Dry heat 30s at 180		5	5	

Application:

Cellulosic Fibres: Exhaust: for neutral or alkaline baths without or- particularly for regenerate cellulose – with electrolyte. Preferred application is in conjunction with alkaline peroxide bleach or reductive bleach at high temperature

Continuous peroxide continuous bleach with a small liquor trough with a high turnover time or a wash whitening process.

Polyamide, wool and silk: Exhaust: from neutral baths, preferably stabilized with sodium hydrosulphite.

Continuous Pad steam or wash whitening process.

REQUIRED AMOUNTS:	CO	PA	WO/S
Exhaust	0.3-0.7 %	0.5-1.5%	0.5-1.5%
Peroxide bleach	2-6g/l	6-18g/l	
White discharge	1-5g/kg		
Wash whitening	2-8g/l		

OTHER INFORMATION:

Miscible with cold and hot water in all proportions

Stock solution to be kept away from light

To avoid precipitation/ coagulation do not mix with products containing polyethylene glycol.

For best results apply in any process under hot conditions at 60

Can be stripped / levelled with 1-2g/l strong dispersing agent. Treat for 45-60 mins at 80-90°C.

To freshen up the whiteness and avoid subsequent yellowing, hydrogen peroxide or stabilised sodium hydrosulphite should be added. re whitening can be carried with HCE Liq.

HCE Liq can be radically stripped from cellulosic and PA fibres using sodium chlorite bleach.

HCE Liq has slightly less affinity to regenerated cellulose than for cotton.

Iron and to much lesser extent copper compounds impair the white effect. Add chelating agent to whitening bath if required.

If treated fabric is acidified the shade may tend to yellow but this can be remedied with weak alkaline rinse

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